

CITY OF SUN PRAIRIE, WISCONSIN
BIRD STREET - WINDSOR STREET
E MAIN STREET - CHURCH STREET
INTERSECTION IMPROVEMENT PROJECT
CONTRACT 25006

UTILITIES

Alliant Energy
4902 N. Baltimore Ln. Suite 1000
Madison, WI 53718
Attn: Mr. Adam Krohn
(608) 458-4871

Charter Communications
2701 Daniel St.
Madison, WI 53718
Attn: Mr. Joe McCleam (Fiber)
(608) 516-8164
Attn: Mr. Brad Wagner (COAX)
(608) 640-9407

Frontier Communications
100 Communications Dr.
Sun Prairie, WI 53590
Attn: Jerry Moore
(608) 837-1605

Sun Prairie Utilities
125 W. Main Street
Sun Prairie, WI 53590
Attn: Andy Hirvela
(608) 837-5500

TDS Metrocom
525 Junction Rd
Madison, WI 53717
Attn: Gary Sanders
(608) 664-0117

WE Energies
500 S. 116 Street
West Allis, WI 53214
Attn: Paving Coordinator Gas Leak or
Emergency
1-800-261-5325

City of Sun Prairie
300 East Main Street
Sun Prairie, WI 53590
Police (608) 837-7336
City Engineer (608) 825-1170
Dir. of Public Works (608) 837-3050
Fire (608) 837-3268

INDEX OF SHEETS

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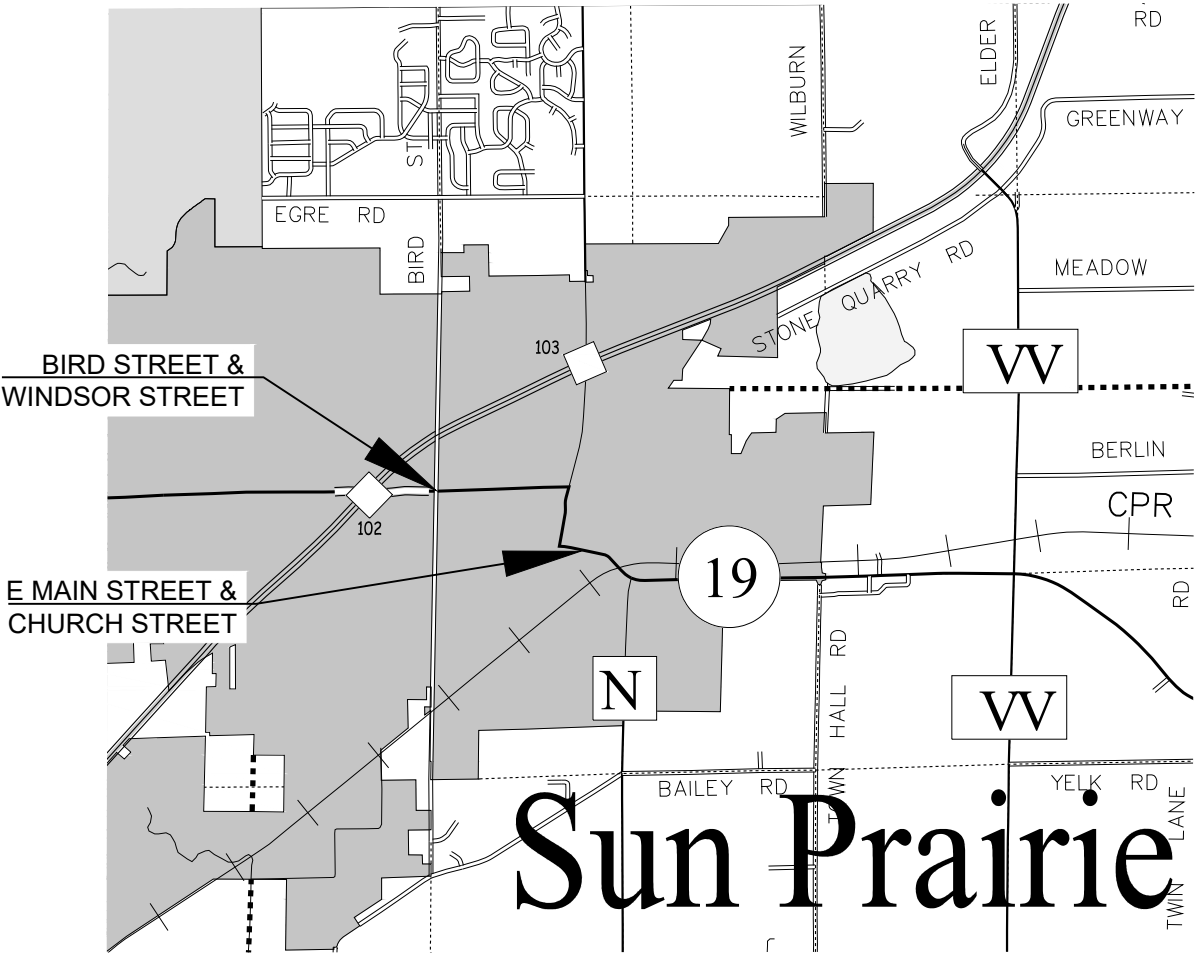
CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE

GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	



CONSTRUCTION NOTES:

- 1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATION ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

ACCEPTED FOR

CITY OF SUN PRAIRIE

Date _____
(Signature and Title of Official)

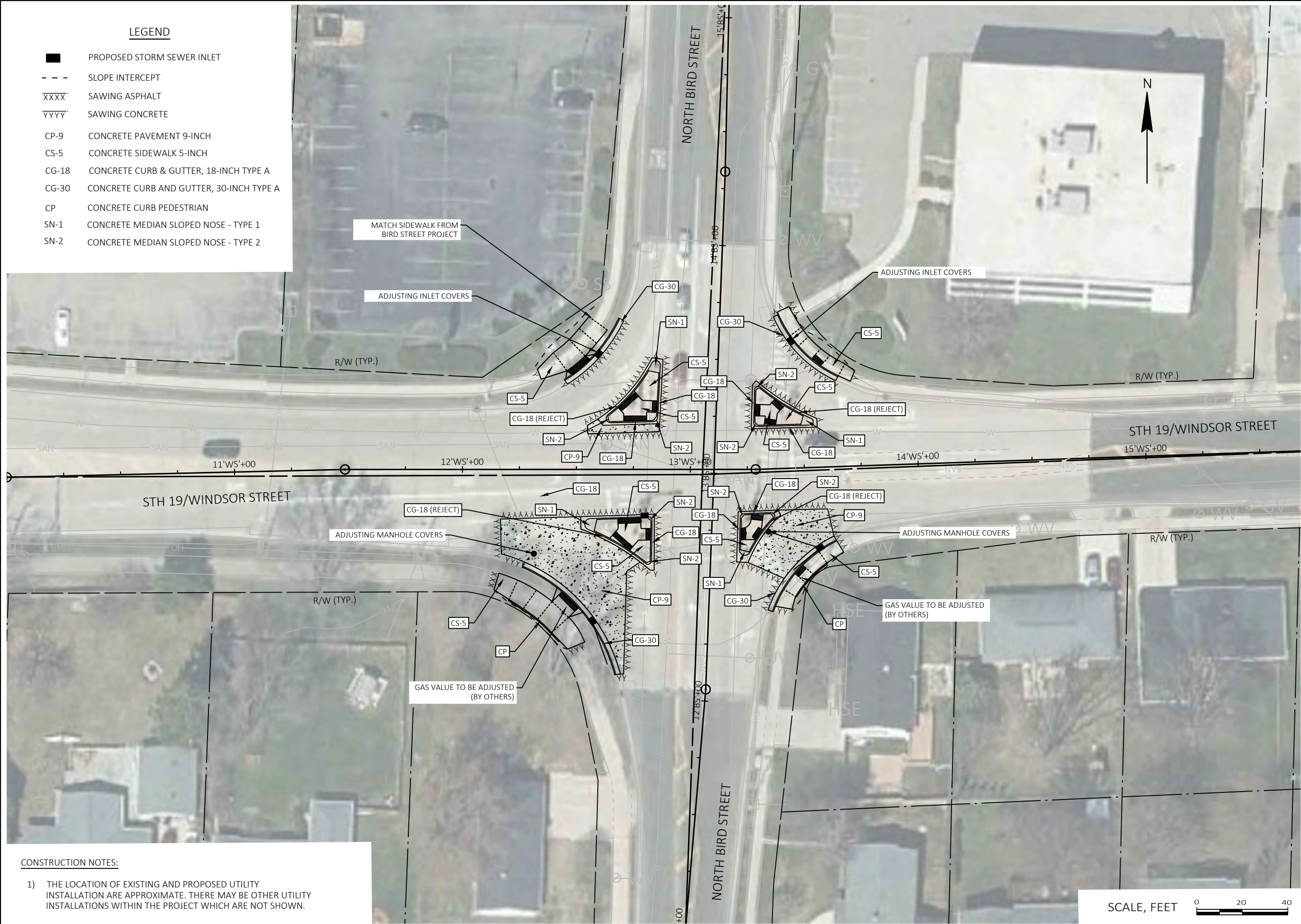
ORIGINAL PLANS PREPARED BY

KL Engineering
(A) Better Experience

(Date)

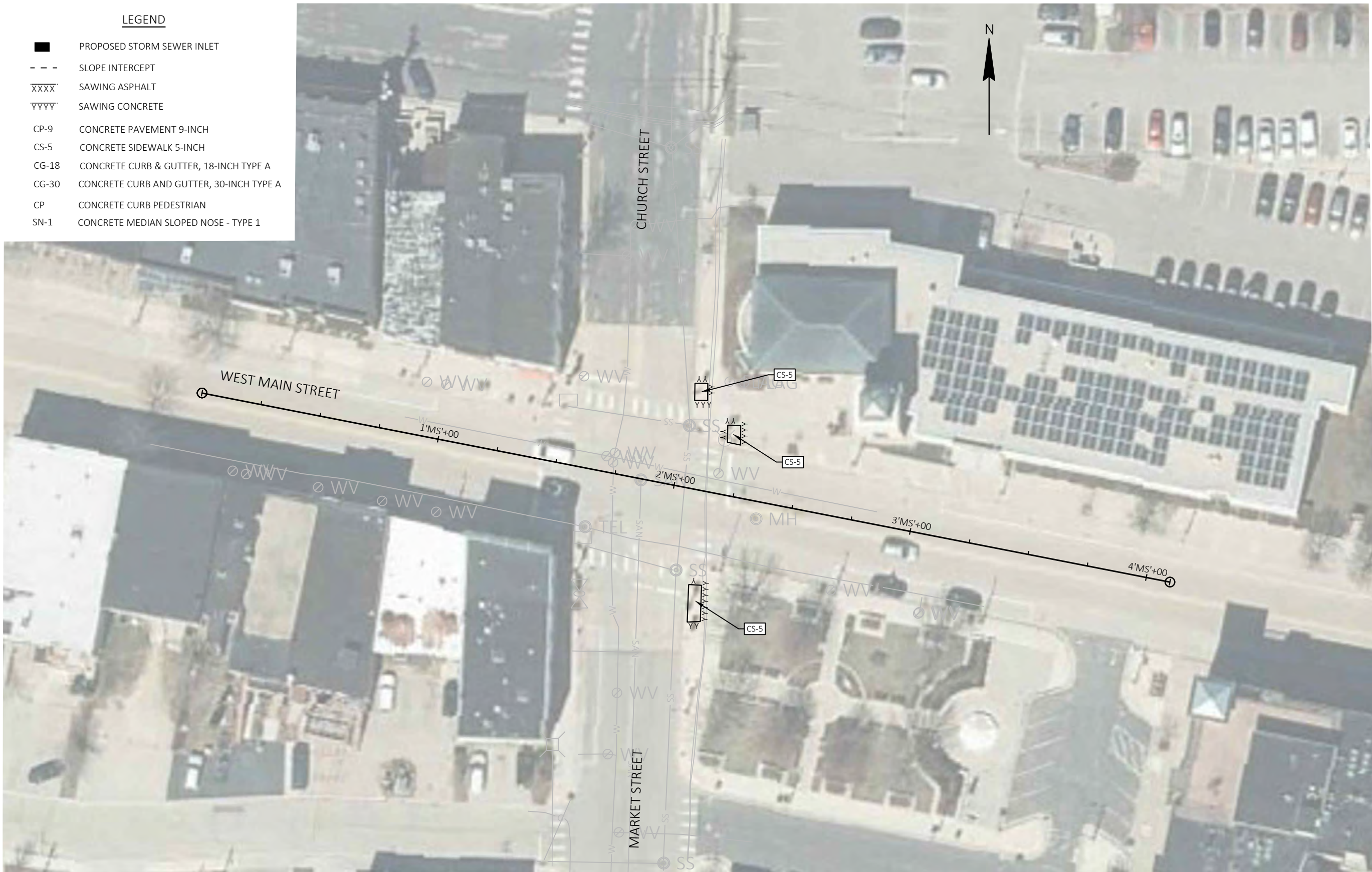
(Signature)

FILE NAME : G:\SUN PRAIRIE\23070-000 MAIN-CHURCH BIRD-WINDSOR SISP\CIVIL 3D\SHEETS\PLAN\021201-PD.DWG PLOT BY : BRAD CUNNINGHAM PLOT DATE : 3/13/2025 3:02 PM



LEGEND

- PROPOSED STORM SEWER INLET
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE
- CP-9 CONCRETE PAVEMENT 9-INCH
- CS-5 CONCRETE SIDEWALK 5-INCH
- CG-18 CONCRETE CURB & GUTTER, 18-INCH TYPE A
- CG-30 CONCRETE CURB AND GUTTER, 30-INCH TYPE A
- CP CONCRETE CURB PEDESTRIAN
- SN-1 CONCRETE MEDIAN SLOPED NOSE - TYPE 1



CONSTRUCTION NOTES:

- 1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATION ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
- 2) CONCRETE SIDEWALK REMOVAL LIMITS ARE APPROXIMATE FINAL LOCATION AS DIRECTED BY ENGINEER

SCALE, FEET 0 20 40



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CITY OF SUN PRAIRIE

PLAN DETAIL

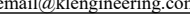
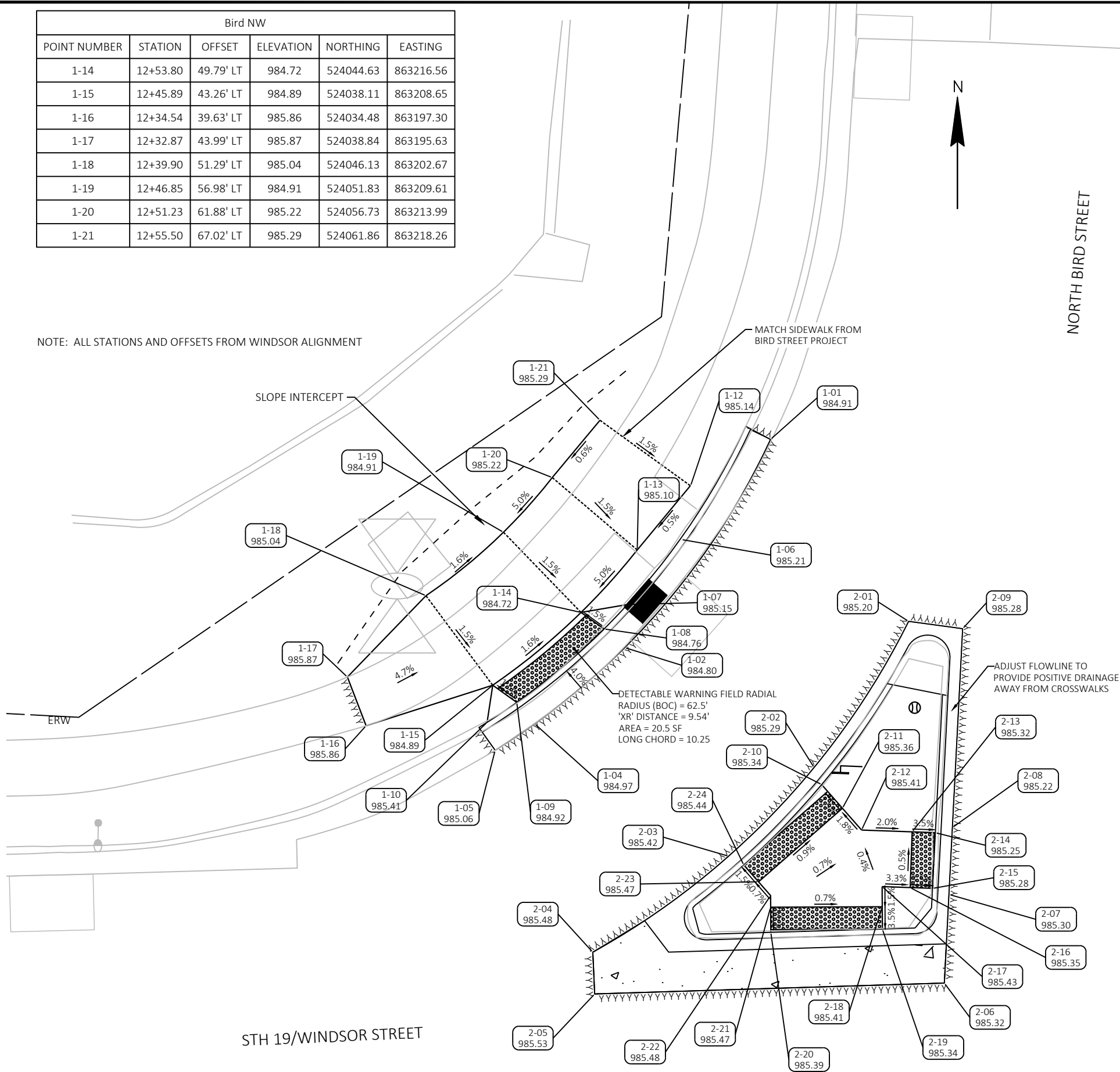
Project No: 25006
Date: 03-13-2025
Designed By: KL ENGINEERING
Drafted By:
Checked By:

Revisions:

SHEET NO.

Bird NW Island					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2-13	12+83.47	30.12' LT	985.32	524024.97	863246.23
2-14	12+85.55	30.05' LT	985.25	524024.90	863248.31
2-15	12+85.29	25.05' LT	985.28	524019.90	863248.06
2-16	12+83.29	25.12' LT	985.35	524019.97	863246.06
2-17	12+80.78	25.21' LT	985.43	524020.06	863243.55
2-18	12+80.79	23.41' LT	985.41	524018.26	863243.55
2-19	12+80.80	21.41' LT	985.34	524016.26	863243.56
2-20	12+70.80	21.11' LT	985.39	524015.96	863233.57
2-21	12+70.79	23.36' LT	985.47	524018.21	863233.56
2-22	12+70.79	24.40' LT	985.48	524019.25	863233.55
2-23	12+69.70	25.64' LT	985.47	524020.49	863232.47
2-24	12+68.39	27.14' LT	985.44	524021.99	863231.15

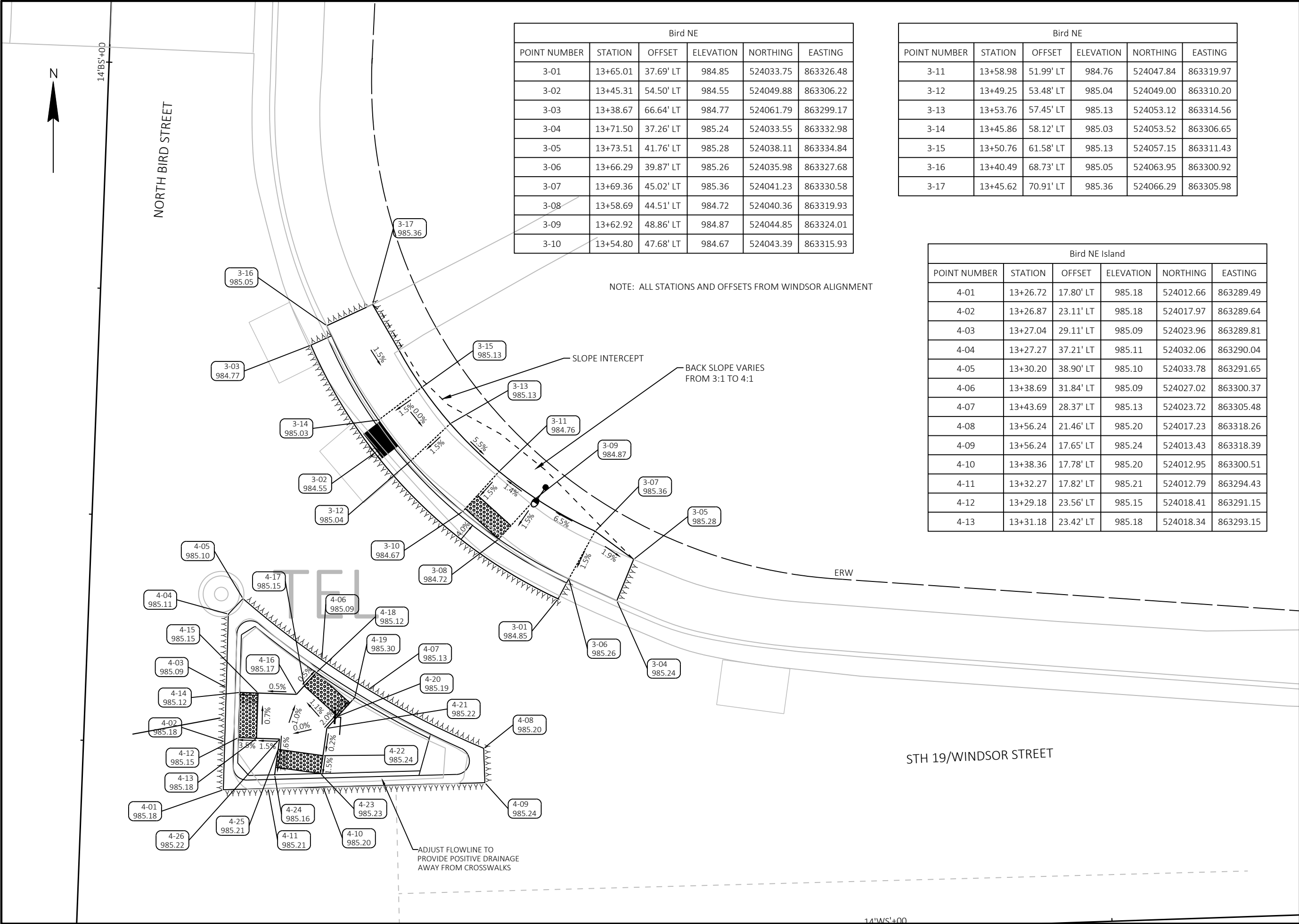
NOTE: ALL STATIONS AND OFFSETS FROM WINDSOR ALIGNMENT



CURB RAMPS

Revisions

SHEET NO.



Bird NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
3-01	13+65.01	37.69' LT	984.85	524033.75	863326.48
3-02	13+45.31	54.50' LT	984.55	524049.88	863306.22
3-03	13+38.67	66.64' LT	984.77	524061.79	863299.17
3-04	13+71.50	37.26' LT	985.24	524033.55	863332.98
3-05	13+73.51	41.76' LT	985.28	524038.11	863334.84
3-06	13+66.29	39.87' LT	985.26	524035.98	863327.68
3-07	13+69.36	45.02' LT	985.36	524041.23	863330.58
3-08	13+58.69	44.51' LT	984.72	524040.36	863319.93
3-09	13+62.92	48.86' LT	984.87	524044.85	863324.01
3-10	13+54.80	47.68' LT	984.67	524043.39	863315.93

Bird NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
3-11	13+58.98	51.99' LT	984.76	524047.84	863319.97
3-12	13+49.25	53.48' LT	985.04	524049.00	863310.20
3-13	13+53.76	57.45' LT	985.13	524053.12	863314.56
3-14	13+45.86	58.12' LT	985.03	524053.52	863306.65
3-15	13+50.76	61.58' LT	985.13	524057.15	863311.43
3-16	13+40.49	68.73' LT	985.05	524063.95	863300.92
3-17	13+45.62	70.91' LT	985.36	524066.29	863305.98

Bird NE Island					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
4-01	13+26.72	17.80' LT	985.18	524012.66	863289.49
4-02	13+26.87	23.11' LT	985.18	524017.97	863289.64
4-03	13+27.04	29.11' LT	985.09	524023.96	863289.81
4-04	13+27.27	37.21' LT	985.11	524032.06	863290.04
4-05	13+30.20	38.90' LT	985.10	524033.78	863291.65
4-06	13+38.69	31.84' LT	985.09	524027.02	863300.37
4-07	13+43.69	28.37' LT	985.13	524023.72	863305.48
4-08	13+56.24	21.46' LT	985.20	524017.23	863318.26
4-09	13+56.24	17.65' LT	985.24	524013.43	863318.39
4-10	13+38.36	17.78' LT	985.20	524012.95	863300.51
4-11	13+32.27	17.82' LT	985.21	524012.79	863294.43
4-12	13+29.18	23.56' LT	985.15	524018.41	863291.15
4-13	13+31.18	23.42' LT	985.18	524018.34	863293.15



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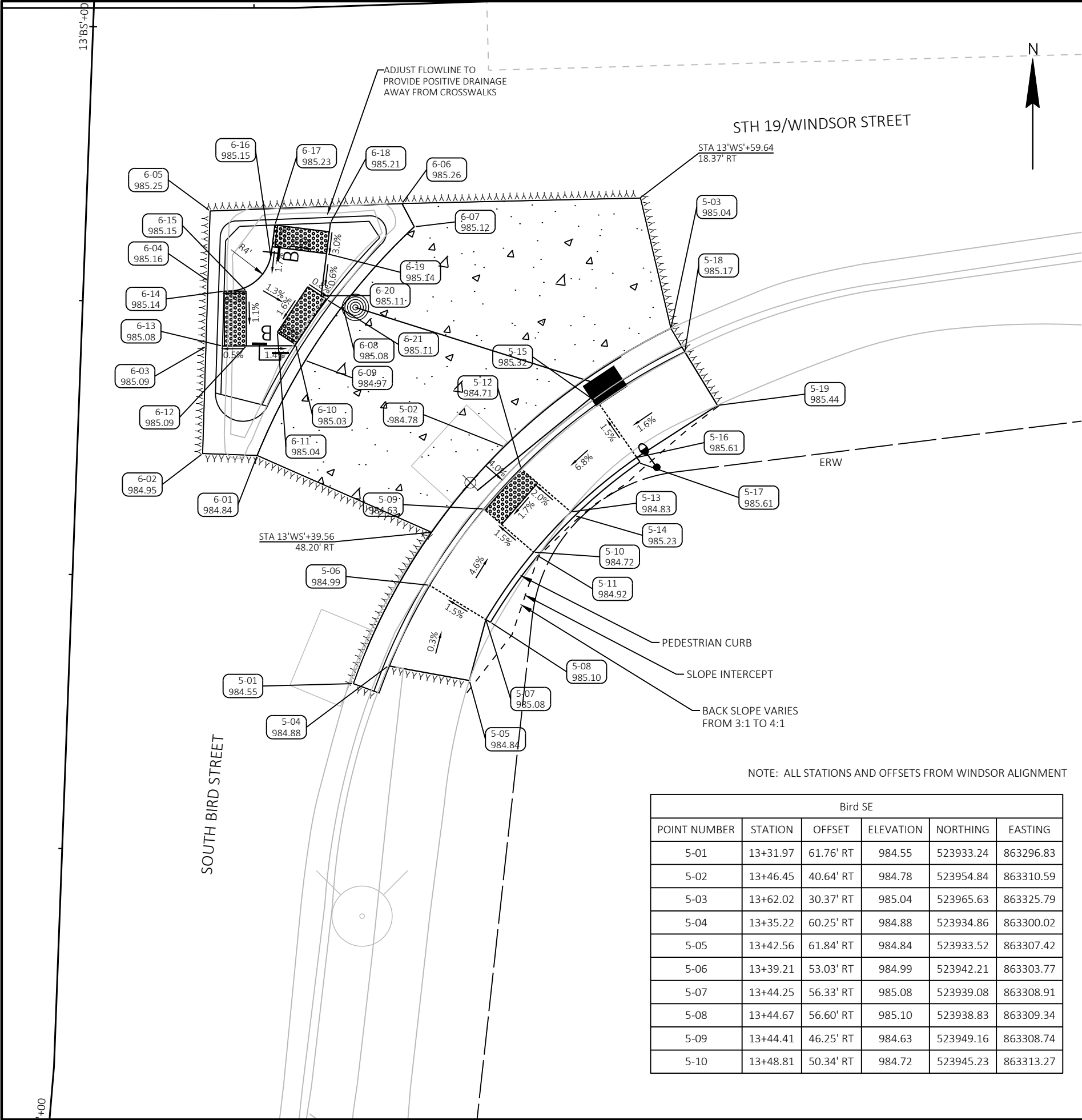
CITY OF SUN PRAIRIE

CURB RAMPS

Project No: 25006
Date: 03-13-2025
Designed By: KL Engineering
Drafted By:
Checked By:

Revisions:

SHEET NO.



NOTE: ALL STATIONS AND OFFSETS FROM WINDSOR ALIGNMENT

Bird SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
5-01	13+31.97	61.76' RT	984.55	523933.24	863296.83
5-02	13+46.45	40.64' RT	984.78	523954.84	863310.59
5-03	13+62.02	30.37' RT	985.04	523965.63	863325.79
5-04	13+35.22	60.25' RT	984.88	523934.86	863300.02
5-05	13+42.56	61.84' RT	984.84	523933.52	863307.42
5-06	13+39.21	53.03' RT	984.99	523942.21	863303.77
5-07	13+44.25	56.33' RT	985.08	523939.08	863308.91
5-08	13+44.67	56.60' RT	985.10	523938.83	863309.34
5-09	13+44.41	46.25' RT	984.63	523949.16	863308.74
5-10	13+48.81	50.34' RT	984.72	523945.23	863313.27

Bird SE Island					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
6-01	13+25.29	40.81' RT	984.84	523954.04	863288.06
6-02	13+20.32	40.63' RT	984.95	523954.22	863283.09
6-03	13+20.62	30.89' RT	985.09	523963.96	863283.38
6-04	13+20.80	24.88' RT	985.16	523969.97	863283.57
6-05	13+21.00	18.52' RT	985.25	523976.33	863283.76
6-06	13+37.89	18.16' RT	985.26	523977.02	863301.27
6-07	13+38.94	20.32' RT	985.12	523974.89	863302.39
6-08	13+32.18	27.30' RT	985.08	523967.69	863295.87
6-09	13+28.65	32.16' RT	984.97	523962.71	863292.44
6-10	13+28.65	30.70' RT	985.03	523964.15	863291.57
6-11	13+27.13	29.58' RT	985.04	523965.27	863289.89

Bird SE Island					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
6-12	13+24.30	30.81' RT	985.09	523964.04	863287.07
6-13	13+22.12	30.83' RT	985.08	523964.03	863284.89
6-14	13+22.28	25.83' RT	985.14	523969.03	863285.04
6-15	13+24.27	25.81' RT	985.15	523969.04	863287.04
6-16	13+26.54	22.72' RT	985.15	523972.13	863289.30
6-17	13+26.91	19.79' RT	985.23	523975.06	863289.67
6-18	13+31.31	19.70' RT	985.21	523975.26	863294.74
6-19	13+30.86	22.49' RT	985.14	523972.45	863294.38
6-20	13+30.24	26.31' RT	985.11	523968.61	863293.90
6-21	13+30.75	26.68' RT	985.11	523968.26	863294.42

Bird SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
5-11	13+49.18	50.67' RT	984.92	523944.90	863313.65
5-12	13+47.92	42.69' RT	984.71	523952.84	863312.12
5-13	13+52.33	46.79' RT	984.83	523948.90	863316.67
5-14	13+52.69	47.14' RT	985.23	523948.55	863317.03
5-15	13+55.24	37.02' RT	985.32	523958.75	863319.24
5-16	13+58.51	42.03' RT	985.61	523953.86	863322.68
5-17	13+58.67	42.51' RT	985.61	523953.38	863322.86
5-18	13+63.21	32.55' RT	985.17	523963.49	863327.06
5-19	13+66.03	37.53' RT	985.44	523958.61	863330.05



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CITY OF SUN PRAIRIE

CURB RAMPS

Project No: 25006
Date: 03-13-2025
Designed By: KL Engineering
Drafted By:
Checked By:

Revisions:

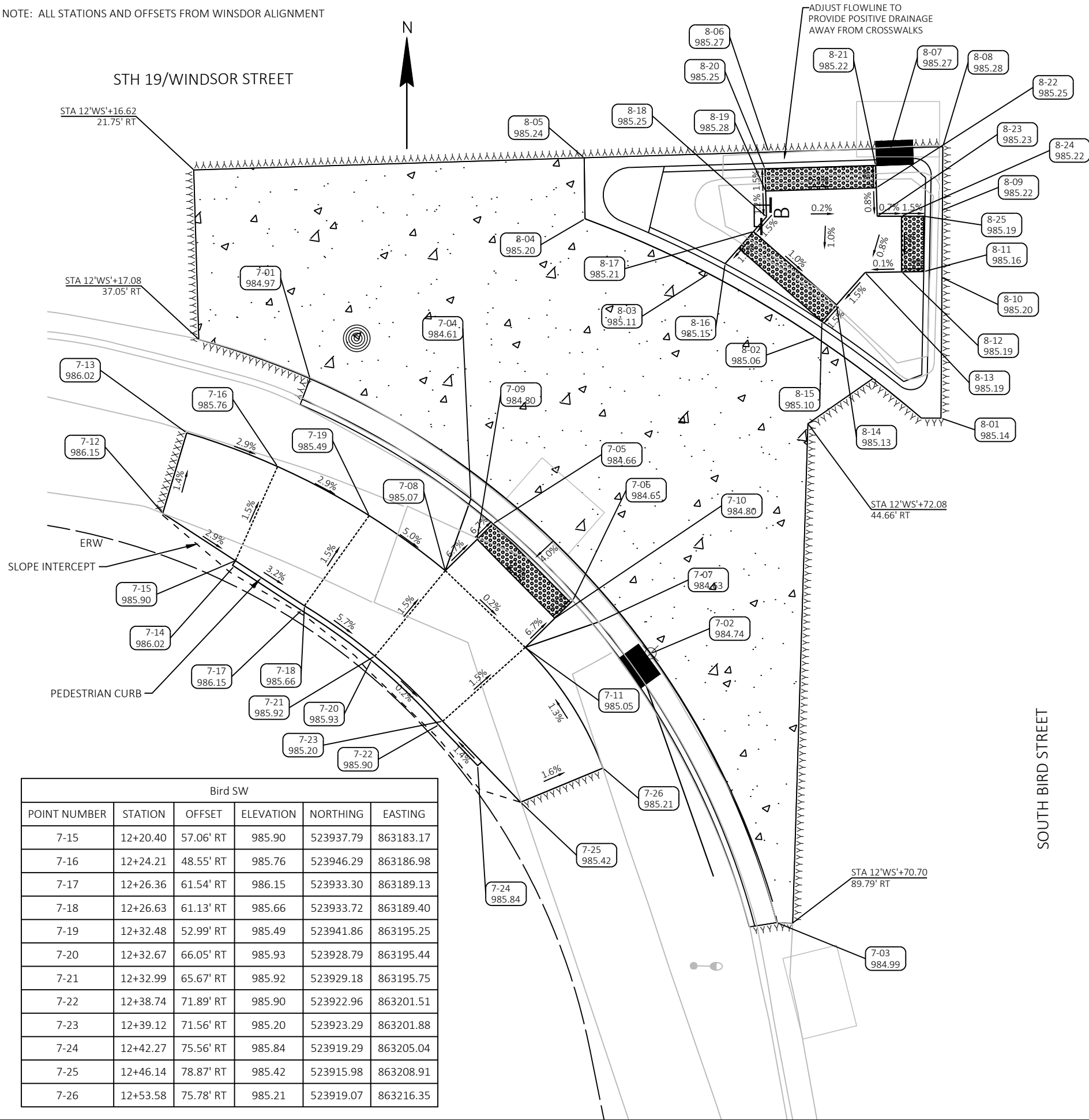
SHEET NO.

Bird SW Island					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
8-01	12+84.11	44.18' RT	985.14	523950.67	863246.88
8-02	12+72.77	36.87' RT	985.06	523957.98	863235.54
8-03	12+63.14	31.15' RT	985.11	523963.69	863225.91
8-04	12+51.97	26.18' RT	985.20	523968.66	863214.74
8-05	12+51.89	20.68' RT	985.24	523974.17	863214.66
8-06	12+68.53	20.12' RT	985.27	523974.72	863231.30
8-07	12+79.55	19.86' RT	985.27	523974.99	863242.32
8-08	12+84.27	19.67' RT	985.28	523975.18	863247.04
8-09	12+84.16	25.43' RT	985.22	523969.42	863246.93
8-10	12+84.05	31.43' RT	985.20	523963.42	863246.82
8-11	12+82.55	30.95' RT	985.16	523963.90	863245.32
8-12	12+80.55	30.96' RT	985.19	523963.89	863243.32
8-13	12+77.25	31.03' RT	985.19	523963.82	863240.02

Bird SW Island					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
8-14	12+74.68	33.96' RT	985.13	523960.89	863237.44
8-15	12+73.35	35.45' RT	985.10	523959.39	863236.12
8-16	12+64.62	30.24' RT	985.15	523964.61	863227.39
8-17	12+67.18	27.34' RT	985.21	523967.51	863229.94
8-18	12+68.35	26.01' RT	985.25	523968.84	863231.12
8-19	12+68.27	23.67' RT	985.28	523971.18	863231.04
8-20	12+68.21	21.67' RT	985.25	523973.18	863230.98
8-21	12+78.21	21.39' RT	985.22	523973.46	863240.98
8-22	12+78.27	23.39' RT	985.25	523971.46	863241.03
8-23	12+78.35	25.96' RT	985.23	523968.89	863241.12
8-24	12+80.54	25.96' RT	985.22	523968.89	863243.31
8-25	12+82.54	25.95' RT	985.19	523968.90	863245.31

Bird SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
7-01	12+27.14	40.61' RT	984.97	523954.23	863189.91
7-02	12+57.90	65.44' RT	984.74	523929.41	863220.67
7-03	12+69.28	89.74' RT	984.99	523905.11	863232.05
7-04	12+41.66	51.48' RT	984.61	523943.37	863204.43
7-05	12+43.65	53.73' RT	984.66	523941.12	863206.42
7-06	12+50.85	60.68' RT	984.65	523934.17	863213.62
7-07	12+53.17	62.60' RT	984.63	523932.25	863215.94
7-08	12+39.35	57.96' RT	985.07	523936.89	863202.12
7-09	12+42.22	55.13' RT	984.80	523939.72	863204.99
7-10	12+49.24	62.26' RT	984.80	523932.59	863212.01
7-11	12+46.57	64.89' RT	985.05	523929.96	863209.34
7-12	12+13.84	52.78' RT	986.15	523942.07	863176.61
7-13	12+16.00	45.51' RT	986.02	523949.34	863178.77
7-14	12+20.28	57.56' RT	986.02	523937.28	863183.04

NOTE: ALL STATIONS AND OFFSETS FROM WINDSOR ALIGNMENT



Bird SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
7-15	12+20.40	57.06' RT	985.90	523937.79	863183.17
7-16	12+24.21	48.55' RT	985.76	523946.29	863186.98
7-17	12+26.36	61.54' RT	986.15	523933.30	863189.13
7-18	12+26.63	61.13' RT	985.66	523933.72	863189.40
7-19	12+32.48	52.99' RT	985.49	523941.86	863195.25
7-20	12+32.67	66.05' RT	985.93	523928.79	863195.44
7-21	12+32.99	65.67' RT	985.92	523929.18	863195.75
7-22	12+38.74	71.89' RT	985.90	523922.96	863201.51
7-23	12+39.12	71.56' RT	985.20	523923.29	863201.88
7-24	12+42.27	75.56' RT	985.84	523919.29	863205.04
7-25	12+46.14	78.87' RT	985.42	523915.98	863208.91
7-26	12+53.58	75.78' RT	985.21	523919.07	863216.35



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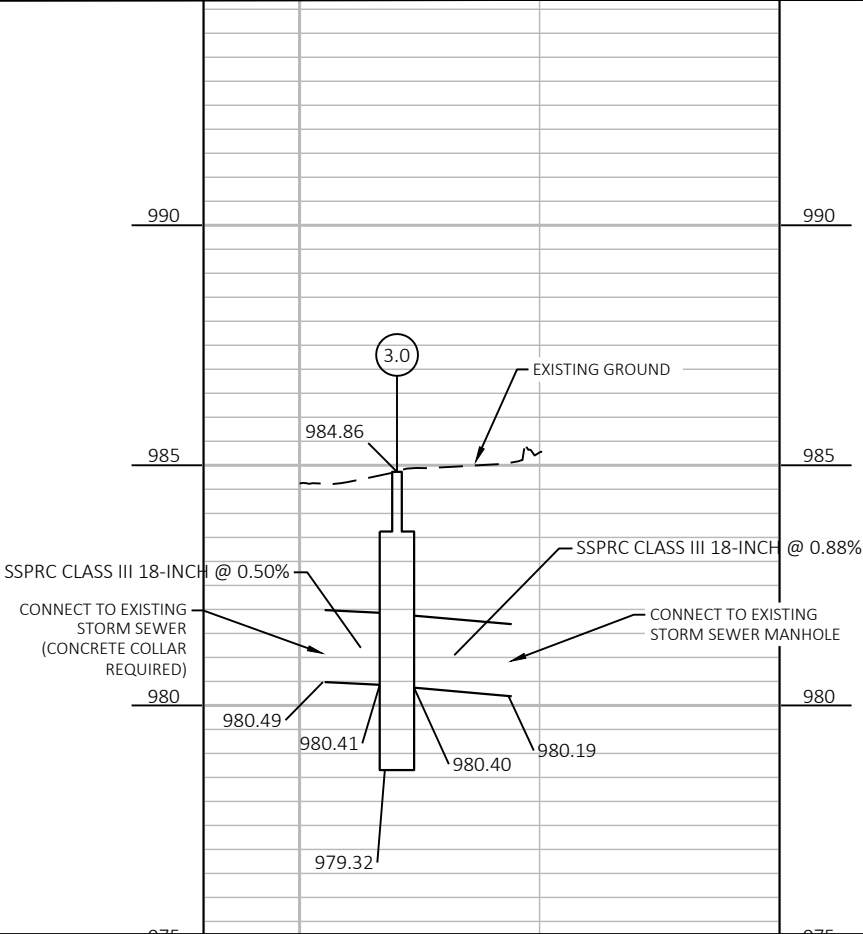
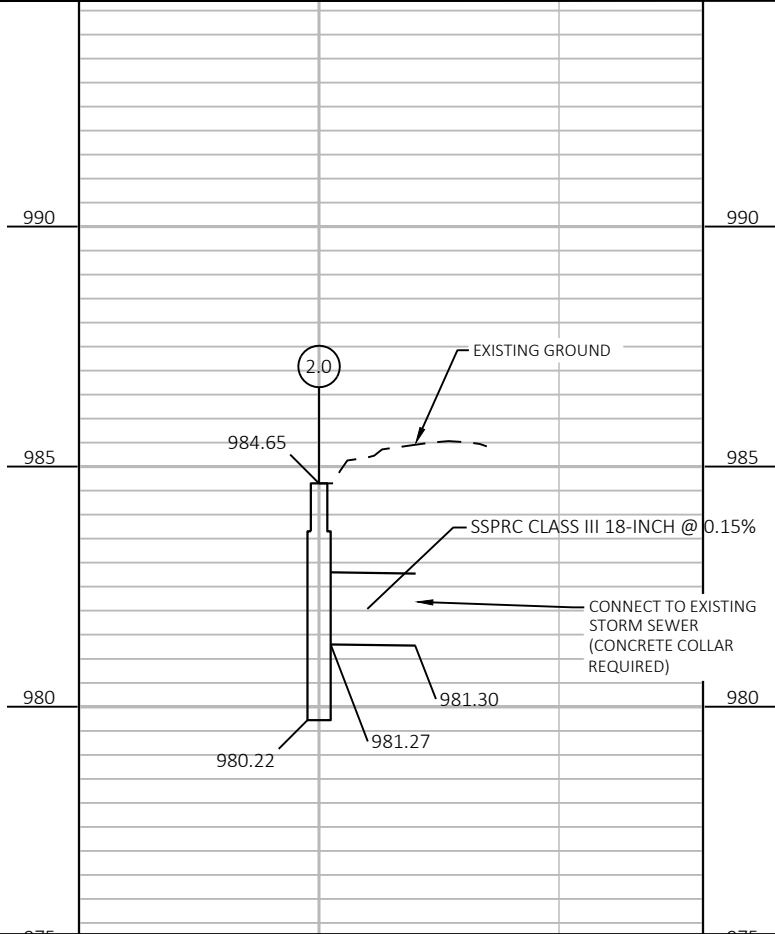
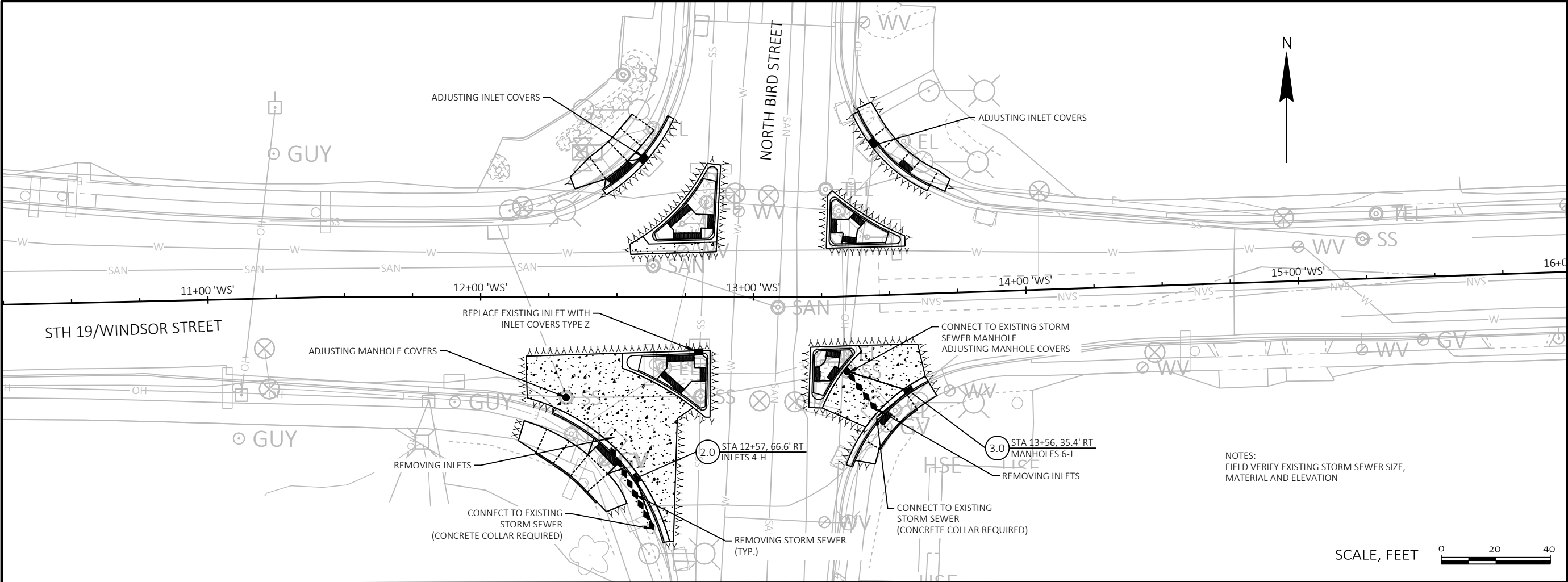
CITY OF SUN PRAIRIE

CURB RAMPS

Project No: 25006
Date: 03-13-2025
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CITY OF SUN PRAIRIE

STORM SEWER

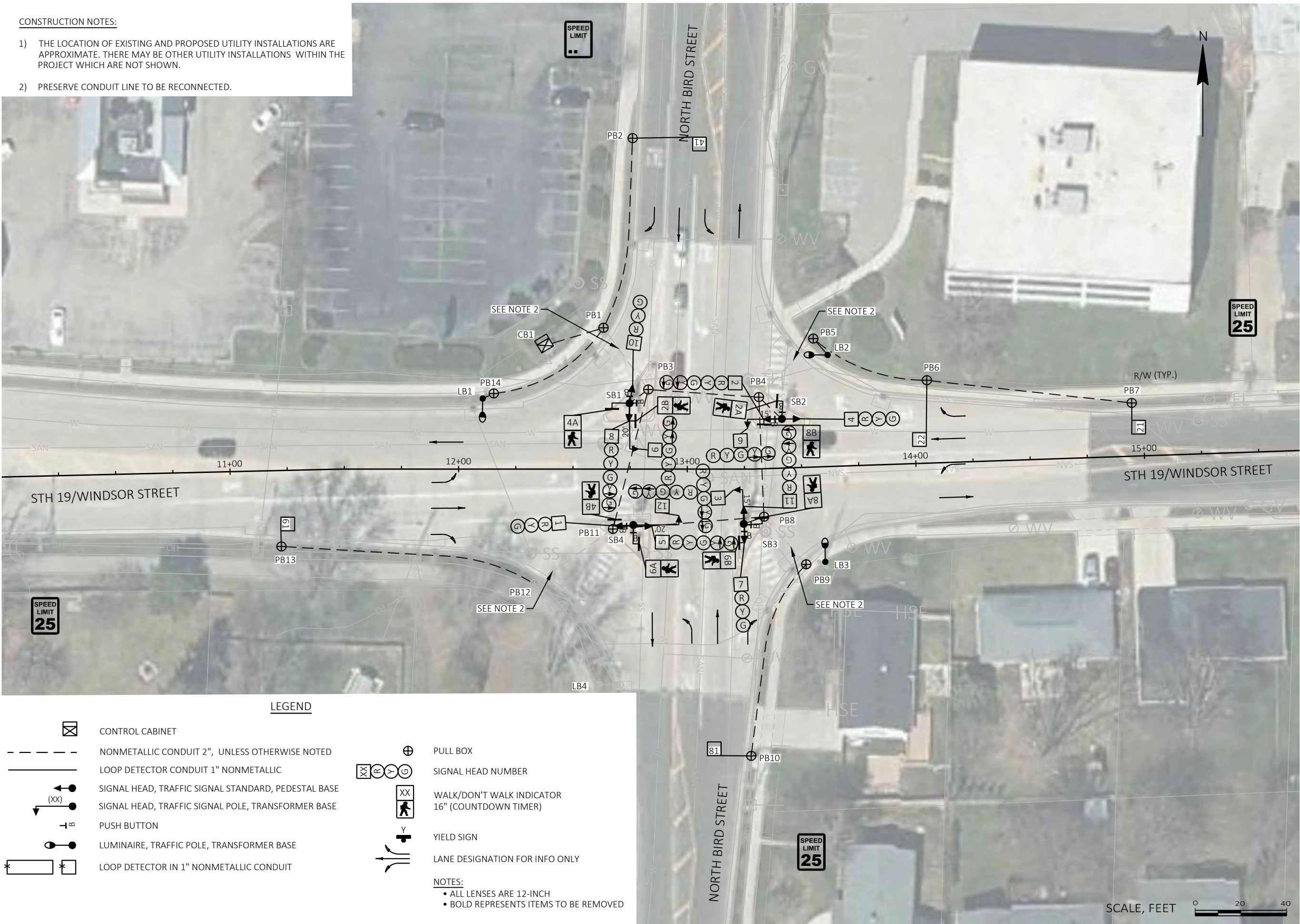
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CONSTRUCTION NOTES:

- 1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
- 2) PRESERVE CONDUIT LINE TO BE RECONNECTED.



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CITY OF SUN PRAIRIE

SIGNAL REMOVAL PLAN

STH 19/ WINDSOR STREET & BIRD STREET

Project No: 23070-000
Date: XX-XX-XXXX
Designed By: JED
Drafted By: GJR
Checked By: KCW

Revisions: XX-XX-XXXX

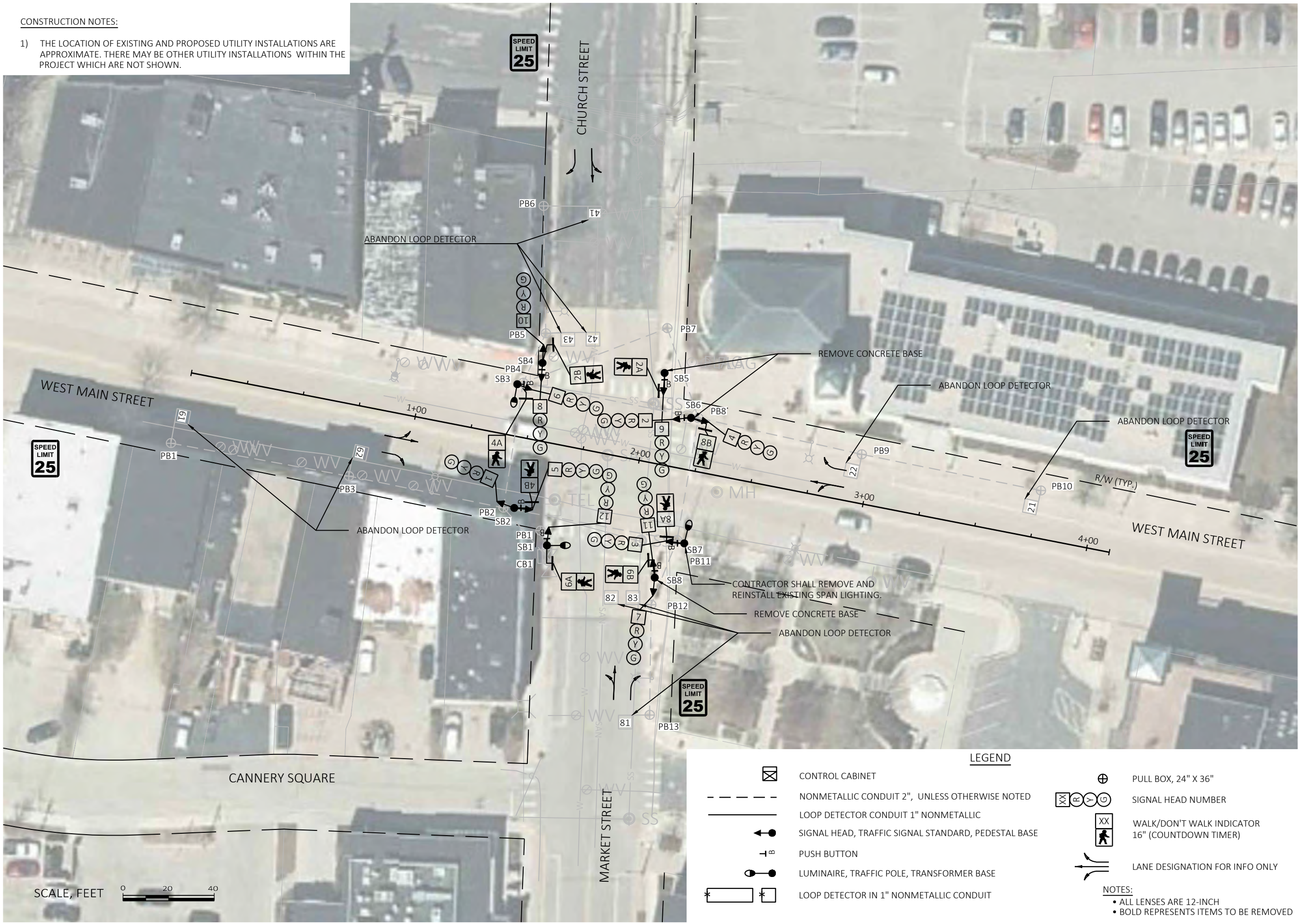
SHEET NO.

1 OF 1

FILE NAME : G:\SUN PRAIRIE\23070-000 MAIN-CHURCH BIRD-WINDSOR SSP\CIVIL 3D\SHEETS\PLAN\024001-SR.DWG PLOT BY : KLENGINEERING PLOT DATE : 3/19/2025 4:04 PM

CONSTRUCTION NOTES:

- 1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.



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CITY OF SUN PRAIRIE

SIGNAL REMOVAL PLAN

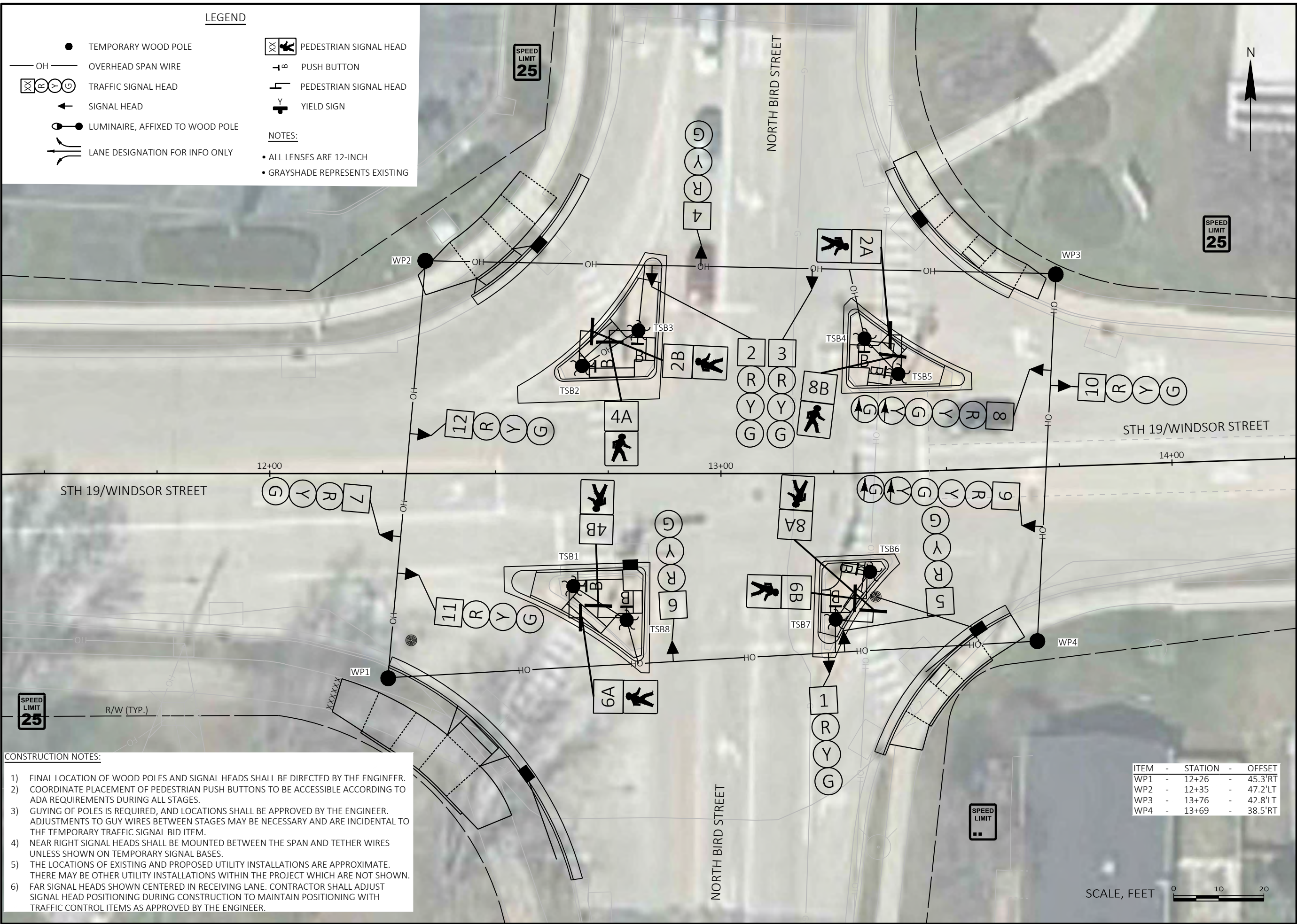
WEST MAIN STREET & CHURCH/MARKET STREET

Project No: 23070-000
Date: XX-XX-XXXX
Designed By: JED
Drafted By: GJR
Checked By: KCW

Revisions: XX-XX-XXXX

SHEET NO.

1 OF 1



LEGEND

- TEMPORARY WOOD POLE
- OH —

OVERHEAD SPAN WIRE
- ⊗ ⊗ ⊗ ⊗

TRAFFIC SIGNAL HEAD
- ↑

SIGNAL HEAD
- LUMINAIRE, AFFIXED TO WOOD POLE
- ↗

LANE DESIGNATION FOR INFO ONLY
- ⊗ ⊗

PEDESTRIAN SIGNAL HEAD
- ∞ —

PUSH BUTTON
- ⊗

PEDESTRIAN SIGNAL HEAD
- Y

YIELD SIGN

NOTES:

•

ALL LENSES ARE 12-INCH

•

GRAYSHADE REPRESENTS EXISTING

- CONSTRUCTION NOTES:
- FINAL LOCATION OF WOOD POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
 - COORDINATE PLACEMENT OF PEDESTRIAN PUSH BUTTONS TO BE ACCESSIBLE ACCORDING TO ADA REQUIREMENTS DURING ALL STAGES.
 - GUYING OF POLES IS REQUIRED, AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER. ADJUSTMENTS TO GUY WIRES BETWEEN STAGES MAY BE NECESSARY AND ARE INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.
 - NEAR RIGHT SIGNAL HEADS SHALL BE MOUNTED BETWEEN THE SPAN AND TETHER WIRES UNLESS SHOWN ON TEMPORARY SIGNAL BASES.
 - THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
 - FAR SIGNAL HEADS SHOWN CENTERED IN RECEIVING LANE. CONTRACTOR SHALL ADJUST SIGNAL HEAD POSITIONING DURING CONSTRUCTION TO MAINTAIN POSITIONING WITH TRAFFIC CONTROL ITEMS AS APPROVED BY THE ENGINEER.

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TEMPORARY TRAFFIC SIGNAL PLAN

STH 19/WINDSOR STREET & BIRD STREET

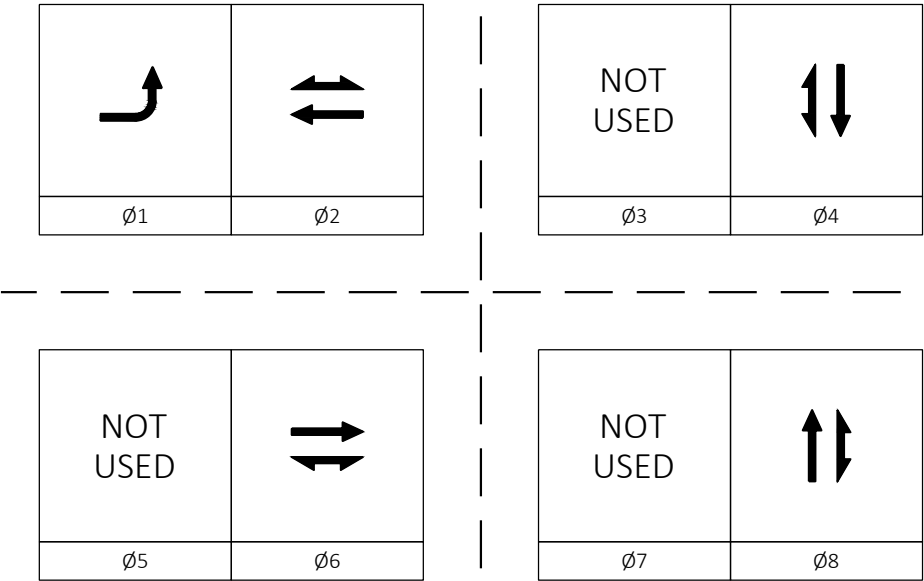
Project No: 23070-000
Date: XX-XX-XXXX
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Checked By: KCW

Revisions: XX-XX-XXXX

SHEET NO.

1 OF 2

	HEAD NUMBERS	FLASH
Ø1	8,9	
Ø2	10,11,12	R
Ø3		
Ø4	4,5,6	R
Ø5		
Ø6	7,8,9	R
Ø7		
Ø8	1,2,3	R
Ø2 PED	2A,2B	
Ø4 PED	4A,4B	
Ø6 PED	6A,6B	
Ø8 PED	8A,8B	



BARRIER

LEGEND



PHASING NOTES:

- 1) TRAFFIC SIGNAL SHALL RUN PRE-TIMED DURING CONSTRUCTION.

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)								
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)								
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

19	17	23	21	27	25	31	29

20	18	24	22	28	26	32	30

DETECTOR INPUT
DETECTOR #(S)
PHASE CALLED
PHASE EXTENDED
DISCONNECT TIME
CALLING DELAY
EXTENSION STRETCH
LOOP FUNCTION

DETECTOR INPUT
DETECTOR #(S)
PHASE CALLED
PHASE EXTENDED
DISCONNECT TIME
CALLING DELAY
EXTENSION STRETCH
LOOP FUNCTION

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1			MAX	X
2		6	MAX	X
3				
4		8	MAX	X
5				
6		2	MAX	X
7				
8		4	MAX	X

TYPE OF PRE-EMPT

NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING

BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE LIGHTING CABINET	

TYPE OF INTERCONNECT

NONE	X
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF REMOTE COMMUNICATION

NONE	X
FIBER	
CELL MODEM	
PHONE	



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CITY OF SUN PRAIRIE

TEMPORARY TRAFFIC SIGNAL PLAN

STH 19/WINDSOR STREET & BIRD STREET

Project No: 23070-000
Date: XX-XX-XXXX
Designed By: JED
Drafted By: GJR
Checked By: KCW

Revisions: XX-XX-XXXX

SHEET NO.

CONSTRUCTION NOTES:

- 1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
- 2) INTERCEPT EXISTING CONDUIT AND TIE INTO PROPOSED EQUIPMENT.

LEGEND

	CONTROL CABINET
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
	LOOP DETECTOR CONDUIT 1" NONMETALLIC
	SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
	MONOTUBE BASE, POLE, 15'-30' ARM
	MONOTUBE BASE, POLE, 35'-45' ARM
	PUSH BUTTON
	LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
	NON-INTRUSIVE DETECTION ZONE
	LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
	PEDESTRIAN HEAD
	PULL BOX, 24" X 36"
	PULL BOX, 24" X 42"
	SIGNAL HEAD NUMBER
	WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
	YIELD SIGN
	LANE DESIGNATION FOR INFO ONLY

NOTES:

- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING



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CITY OF SUN PRAIRIE

TRAFFIC SIGNAL PLAN

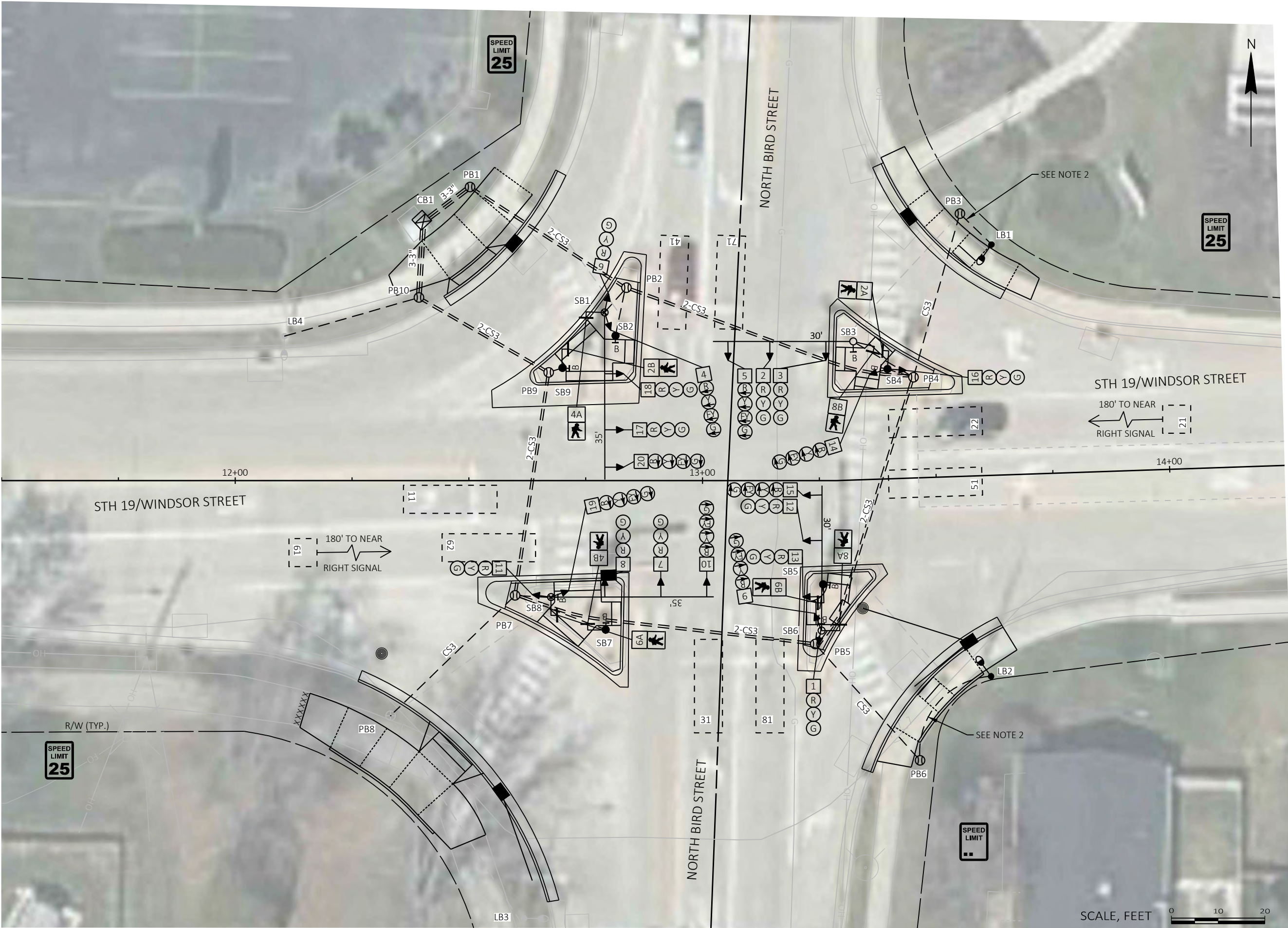
STH 19/WINDSOR STREET & BIRD STREET

Project No: 23070-000
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Designed By: JED
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Revisions: XX-XX-XXXX

SHEET NO.

1 OF 4





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TRAFFIC SIGNAL PLAN

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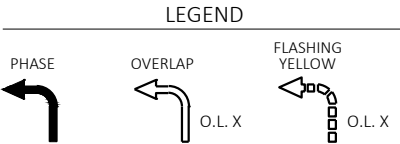
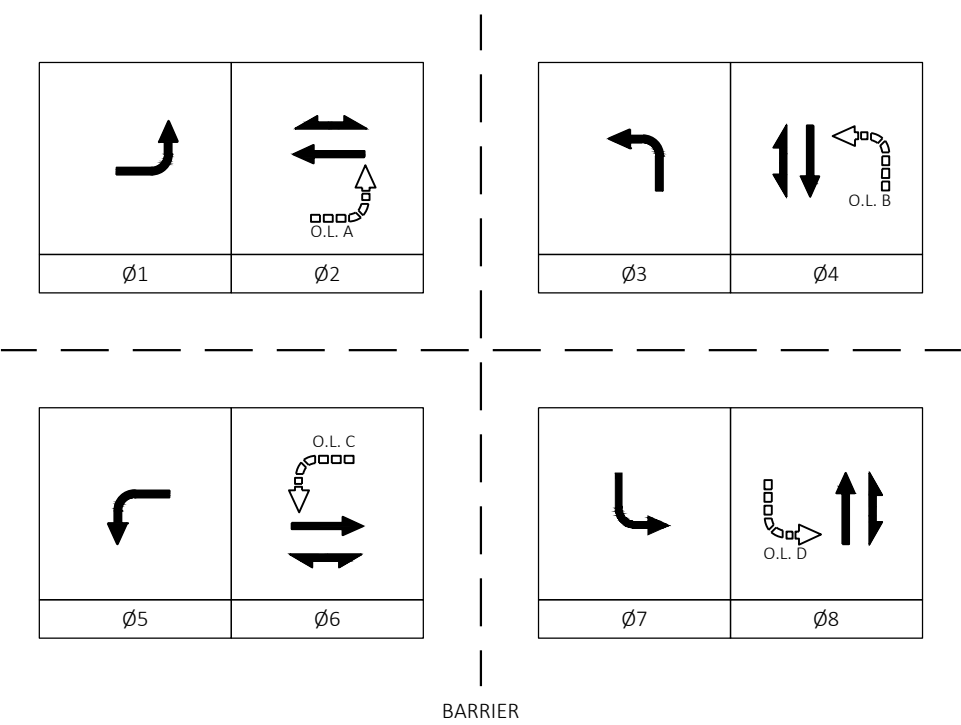
Revisions: XX-XX-XXXX

SHEET NO.

2 OF 4

	HEAD NUMBERS	FLASH
Ø1	14,15	R
Ø2	16,17,18	R
Ø3	4,5	R
Ø4	6,7,8	R
Ø5	19,20	R
Ø6	11,12,13	R
Ø7	9,10	R
Ø8	1,2,3	R
Ø2 PED	2A,2B	
Ø4 PED	4A,4B	
Ø6 PED	6A,6B	
Ø8 PED	8A,8B	
O.L.A	14,15	R
O.L.B	4,5	R
O.L.C	19,20	R
O.L.D	9,10	R

O.L. ASSIGNMENTS
Ø2
Ø4
Ø6
Ø8



DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	11	22	31	41	51	61	71	81
PHASE CALLED	1	2	3	4	5	6	7	8
PHASE EXTENDED	1	2	3	4	5	6	7	8
DISCONNECT TIME		18				18		
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)		21				61		
PHASE CALLED								
PHASE EXTENDED		2				6		
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

19	17	23	21	27	25	31	29

20	18	24	22	28	26	32	30

DETECTOR INPUT
DETECTOR #(S)
PHASE CALLED
PHASE EXTENDED
DISCONNECT TIME
CALLING DELAY
EXTENSION STRETCH
LOOP FUNCTION

DETECTOR INPUT
DETECTOR #(S)
PHASE CALLED
PHASE EXTENDED
DISCONNECT TIME
CALLING DELAY
EXTENSION STRETCH
LOOP FUNCTION

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1				X
2	X	6	MIN	X
3				X
4		8		X
5				X
6	X	2	MIN	X
7				X
8		4		X

TYPE OF PRE-EMPT

NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING

BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE LIGHTING CABINET	

TYPE OF INTERCONNECT

NONE	X
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF REMOTE COMMUNICATION

NONE	X
FIBER	
CELL MODEM	
PHONE	



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CITY OF SUN PRAIRIE

TRAFFIC SIGNAL PLAN

STH 19/WINDSOR STREET & BIRD STREET

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Checked By: KCW

Revisions: XX-XX-XXXX

SHEET NO.

3 OF 4

INTERSECTION:

N Bird St & STH 19/Windsor St

SIGNAL WIRE	BLK-BLACK	RED-RED	GRN-GREEN
COLOR CODING	WHT-WHITE	BLU-BLUE	ORG-ORANGE

DATE:

JAN-24

CB1 TO	AWG 14 # OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR									PED BUTTON	OTHER
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<FLASH YEL>	<GREEN>	DWALK	WALK		
SB1	21	4	3				WHT/RED	BLK/RED	BLU/WHT	BLU/RED				
		6	4	RED/WHT	ORG/RED	GRN/WHT								
		17	2	RED	ORG	GRN								
		18	2	RED	ORG	GRN								
		20	5				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		4A	4								BLK	BLU		
SB2	5	BUTTON	2										*	
SB3	12	2	8	RED	ORG	GRN								
		3	8	RED	ORG	GRN								
		5	3				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		8B	8								BLK	BLU		
		BUTTON	2										*	
SB4	12	14	1				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		16	2	RED	ORG	GRN								
		2A	2								BLK	BLU		
		BUTTON	8										*	
SB5	7	6B	6								BLK	BLU		
		BUTTON	8										*	
SB6	21	1	8	RED/WHT	ORG/RED	GRN/WHT								
		9	7				WHT/RED	BLK/RED	BLU/WHT	BLU/RED				
		12	6	RED	ORG	GRN								
		13	6	RED	ORG	GRN								
		15	1				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		8A	8								BLK	BLU		
		BUTTON	6										*	
SB7	7	4B	4								BLK	BLU		
		BUTTON	6										*	
SB8	21	7	4	RED	ORG	GRN								
		8	4	RED	ORG	GRN								
		10	7				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		11	6	RED/WHT	ORG/RED	GRN/WHT								
		19	5				WHT/RED	BLK/RED	BLU/WHT	BLU/RED				
		6A	6								BLK	BLU		
		BUTTON	4										*	
SB9	7	2B	2								BLK	BLU		
		BUTTON	4										*	

*LOOP DETECTOR LEAD-IN CABLE USED FOR PEDESTRIAN PUSH BUTTON

EQUIPMENT GROUNDING CONDUCTORS 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	CB1

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	LB1
LB1	LB2
CB1	LB4
LB4	LB3

LOOP DETECTOR LEAD-IN CABLE		
FROM	TO BUTTON ON	PHASE
CB1	SB2	2
CB1	SB3	2
CB1	SB4	8
CB1	SB5	8
CB1	SB6	6
CB1	SB7	6
CB1	SB8	4
CB1	SB9	4

NOTE: ALL RUNS SHALL BE COMPLETED WITH ONE CONTINUOUS CABLE FROM CABINET TO BUTTON. NO CABLE TO CABLE SPLICING IS PERMITTED.



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CITY OF SUN PRAIRIE

TRAFFIC SIGNAL PLAN

STH 19/WINDSOR STREET & BIRD STREET

Project No: 23070-000
Date: XX-XX-XXXX
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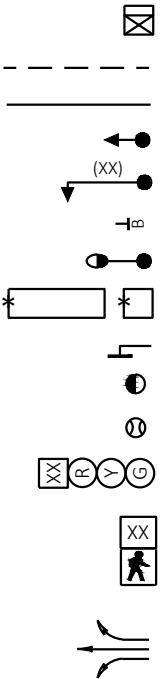
Revisions: XX-XX-XXXX

SHEET NO.

CONSTRUCTION NOTES:

- 1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATION ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
- 2) ALL SIGNAL CONCRETE BASES TO REMAIN UNLESS NOTED IN PLANS. ALL ABOVE-GROUND EQUIPMENT SHALL BE REMOVED AND REPLACED WITH NEW EQUIPMENT.
- 3) SIGNAL EQUIPMENT SHALL BE CONSTRUCTED IN STAGES. ALL DIRECTIONS MUST MAINTAIN TWO FAR SIGNAL INDICATIONS AT ALL TIMES. INDIVIDUAL SIGNAL HEADS MAY NOT BE NON-OPERATIONAL FOR MORE THAN 24 HOURS.

LEGEND



CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

LOOP DETECTOR CONDUIT 1" NONMETALLIC

SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE

SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE

PUSH BUTTON

LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE

LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

PEDESTRIAN HEAD

PULL BOX, 24" X 36"

PULL BOX, 24" X 42"

SIGNAL HEAD NUMBER

WALK/DON'T WALK INDICATOR
16" (COUNTDOWN TIMER)

LANE DESIGNATION FOR INFO ONLY

NOTES:

- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING



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WEST MAIN STREET & CHURCH/MARKET STREET

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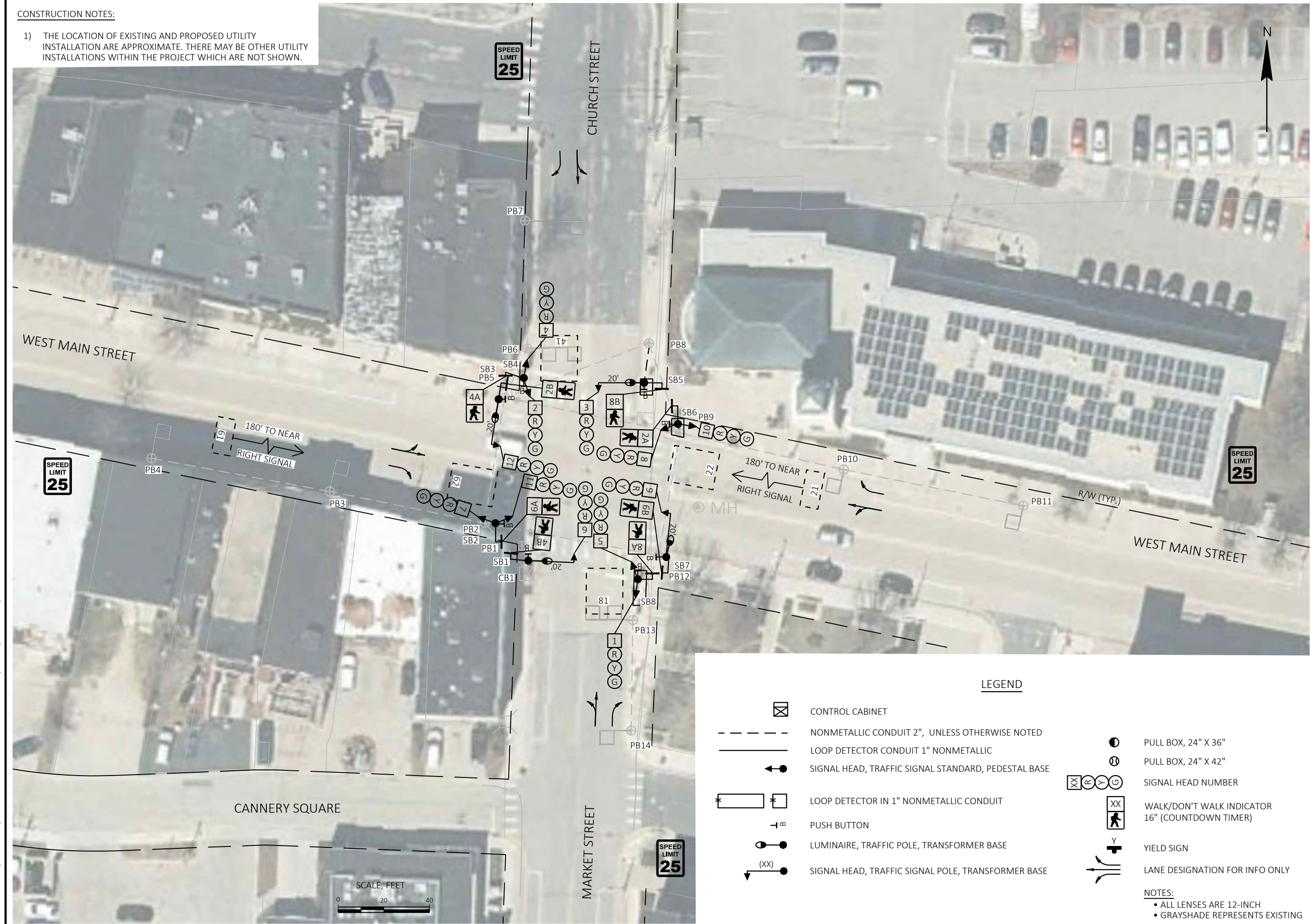
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TRAFFIC SIGNAL PLAN

WEST MAIN STREET & CHURCH/MARKET STREET

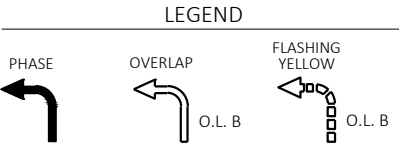
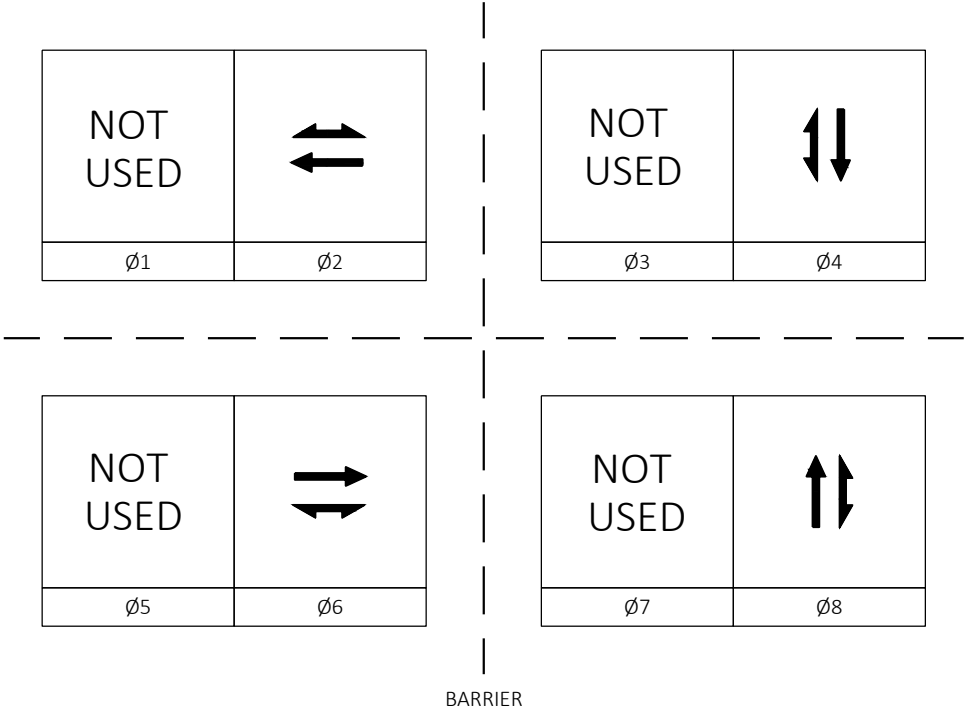
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SHEET NO.

2 OF 4

	HEAD NUMBERS	FLASH
Ø1		
Ø2	10,11,12	R
Ø3		
Ø4	4,5,6	R
Ø5		
Ø6	7,8,9	R
Ø7		
Ø8	1,2,3	R
Ø2 PED	2A,2B	
Ø4 PED	4A,4B	
Ø6 PED	6A,6B	
Ø8 PED	8A,8B	



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN	X
3				
4		8		X
5				
6	X	2	MIN	X
7				
8		4		X

TYPE OF PRE-EMPT

NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWARE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING

BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE LIGHTING CABINET	

TYPE OF INTERCONNECT

NONE	
TBC	X
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF REMOTE COMMUNICATION

NONE	X
FIBER	
CELL MODEM	
PHONE	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	22			62				
PHASE CALLED	2			6				
PHASE EXTENDED	2			6				
DISCONNECT TIME	18			18				
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	21	41		61	81			
PHASE CALLED		4			8			
PHASE EXTENDED	2	4		6	8			
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

19	17	23	21	27	25	31	29

DETECTOR INPUT
DETECTOR #(S)
PHASE CALLED
PHASE EXTENDED
DISCONNECT TIME
CALLING DELAY
EXTENSION STRETCH
LOOP FUNCTION

20	18	24	22	28	26	32	30

DETECTOR INPUT
DETECTOR #(S)
PHASE CALLED
PHASE EXTENDED
DISCONNECT TIME
CALLING DELAY
EXTENSION STRETCH
LOOP FUNCTION



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SHEET NO.

INTERSECTION:

W Main St & Church/Market St

SIGNAL WIRE	BLK-BLACK	RED-RED	GRN-GREEN
COLOR CODING	WHT-WHITE	BLU-BLUE	ORG-ORANGE

DATE:

JAN-24

CB1 TO	AWG 14 # OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<FLASH YEL>	<GREEN>	DWALK	WALK	
SB1	7	6	4	RED	ORG	GRN							
		4B	4								BLK	BLU	
		BUTTON	6									*	
SB2	12	7	6	RED	ORG	GRN							
		11	2	RED/BLK	ORG/BLK	GRN/BLK							
		6A	6								BLK	BLU	
		BUTTON	4									*	
SB3	7	12	2	RED	ORG	GRN							
		2B	2								BLK	BLU	
		BUTTON	4									*	
SB4	12	2	8	RED	ORG	GRN							
		4	4	RED/BLK	ORG/BLK	GRN/BLK							
		4A	4								BLK	BLU	
		BUTTON	2									*	
SB5	7	3	8	RED	ORG	GRN							
		8B	8								BLK	BLU	
		BUTTON	2									*	
SB6	12	8	6	RED	ORG	GRN							
		10	2	RED/BLK	ORG/BLK	GRN/BLK							
		2A	2								BLK	BLU	
		BUTTON	8									*	
SB7	7	9	6	RED	ORG	GRN							
		6B	6								BLK	BLU	
		BUTTON	8									*	
SB8	12	1	8	RED	ORG	GRN							
		5	4	RED/BLK	ORG/BLK	GRN/BLK							
		8A	8								BLK	BLU	
		BUTTON	6									*	

*LOOP DETECTOR LEAD-IN CABLE USED FOR PEDESTRIAN PUSH BUTTON

EQUIPMENT GROUNDING CONDUCTORS 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	SB1
SB1	SB3
CB1	SB7
SB7	SB5

LOOP DETECTOR LEAD-IN CABLE		
FROM	TO BUTTON ON	PHASE
CB1	SB1	2
CB1	SB2	2
CB1	SB3	8
CB1	SB4	8
CB1	SB5	6
CB1	SB6	6
CB1	SB7	4
CB1	SB8	4

NOTE: ALL RUNS SHALL BE COMPLETED WITH ONE CONTINUOUS CABLE FROM CABINET TO BUTTON. NO CABLE TO CABLE SPLICING IS PERMITTED.



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CITY OF SUN PRAIRIE

TRAFFIC SIGNAL PLAN

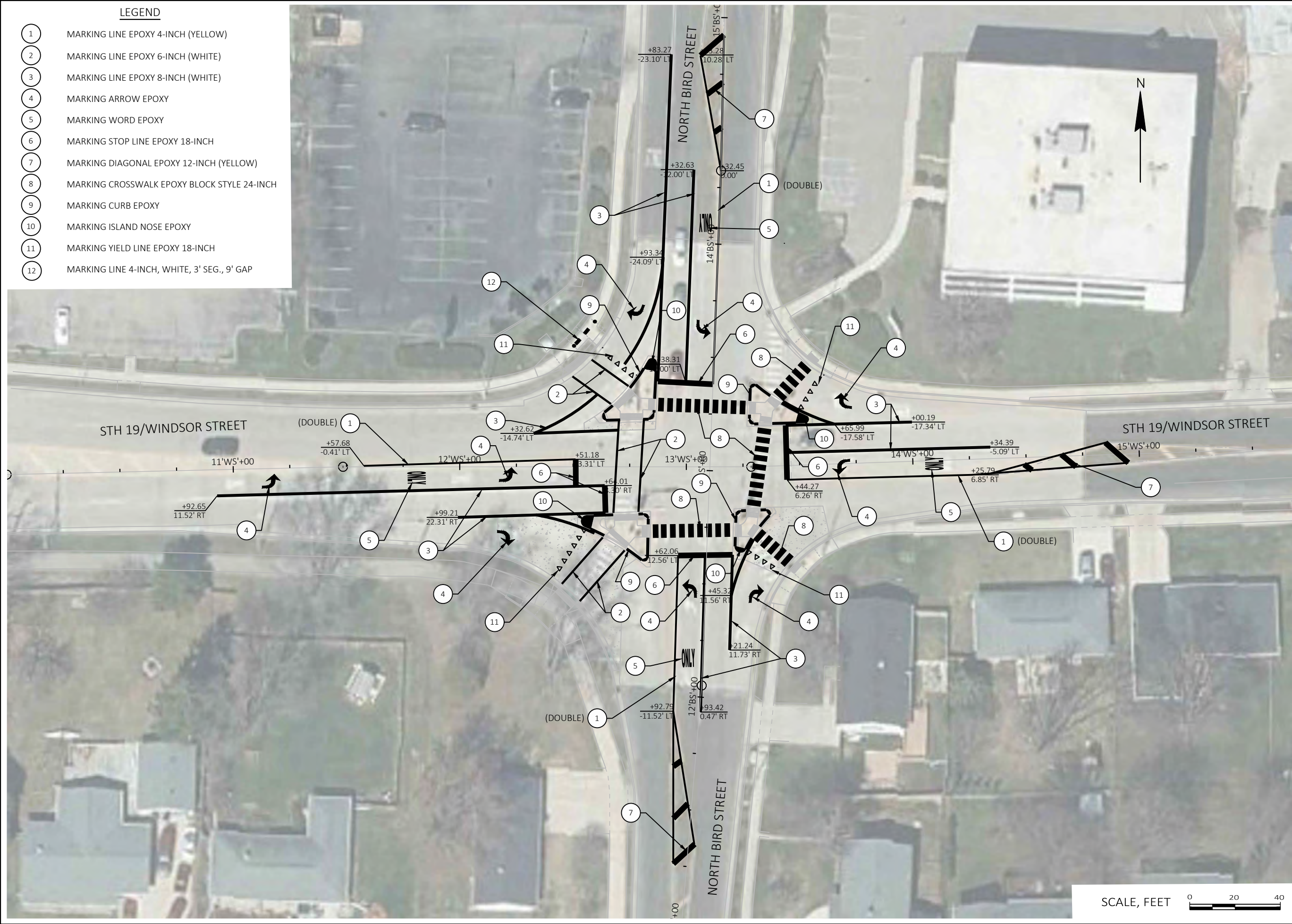
WEST MAIN STREET & CHURCH/MARKET STREET

Project No: 23070-000
Date: XX-XX-XXXX
Designed By: JED
Drafted By: GJR
Checked By: KCW

Revisions: XX-XX-XXXX

SHEET NO.

FILE NAME : G:\SUN PRAIRIE\23070-000 MAIN-CHURCH BIRD-WINDSOR\51P\CIVIL 3D\SHEETS\PLAN\024501-P.M.DWG PLOT BY : BRAD CUNNINGHAM PLOT DATE : 3/13/2025 2:59 PM



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PAVEMENT MARKING

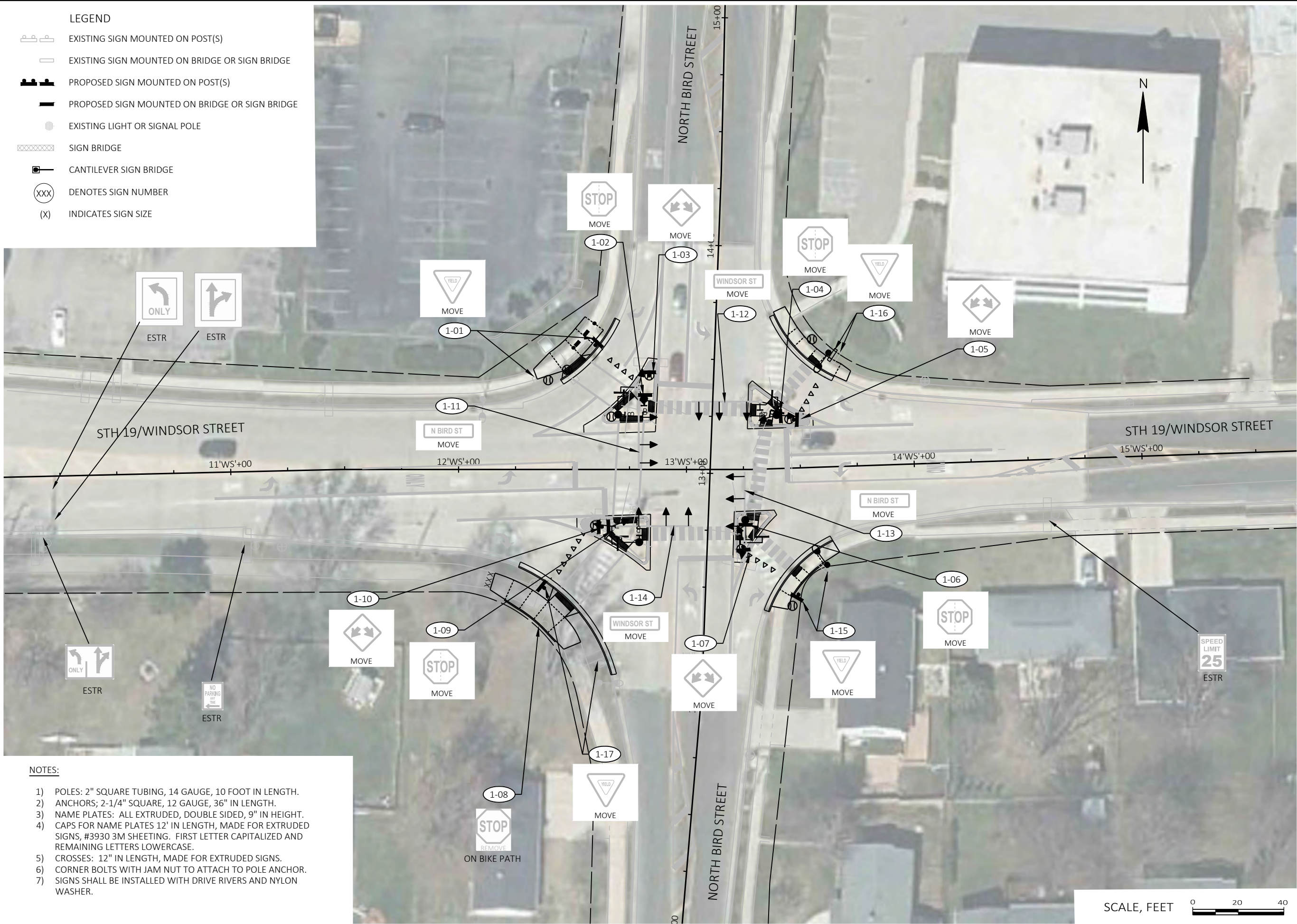
Project No: 25006
Date: 03-13-2025
Designed By: KL ENGINEERING
Drafted By:
Checked By:

Revisions:

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LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DENOTES SIGN NUMBER
- INDICATES SIGN SIZE



NOTES:

- 1) POLES: 2" SQUARE TUBING, 14 GAUGE, 10 FOOT IN LENGTH.
- 2) ANCHORS: 2-1/4" SQUARE, 12 GAUGE, 36" IN LENGTH.
- 3) NAME PLATES: ALL EXTRUDED, DOUBLE SIDED, 9" IN HEIGHT.
- 4) CAPS FOR NAME PLATES 12' IN LENGTH, MADE FOR EXTRUDED SIGNS, #3930 3M SHEETING. FIRST LETTER CAPITALIZED AND REMAINING LETTERS LOWERCASE.
- 5) CROSSES: 12" IN LENGTH, MADE FOR EXTRUDED SIGNS.
- 6) CORNER BOLTS WITH JAM NUT TO ATTACH TO POLE ANCHOR.
- 7) SIGNS SHALL BE INSTALLED WITH DRIVE RIVERS AND NYLON WASHER.



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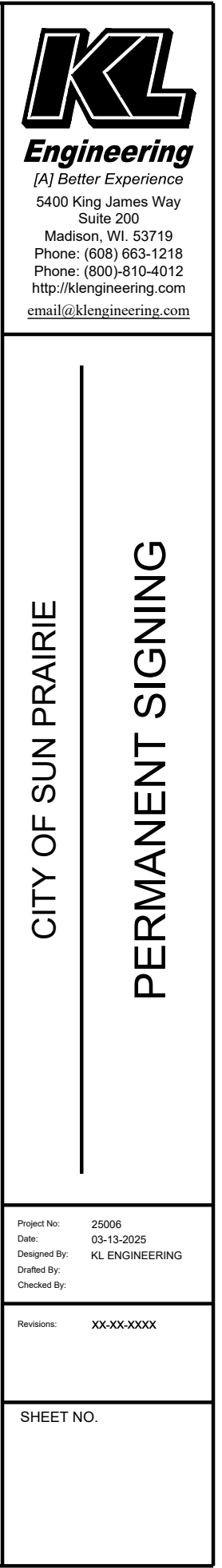
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PERMANENT SIGNING

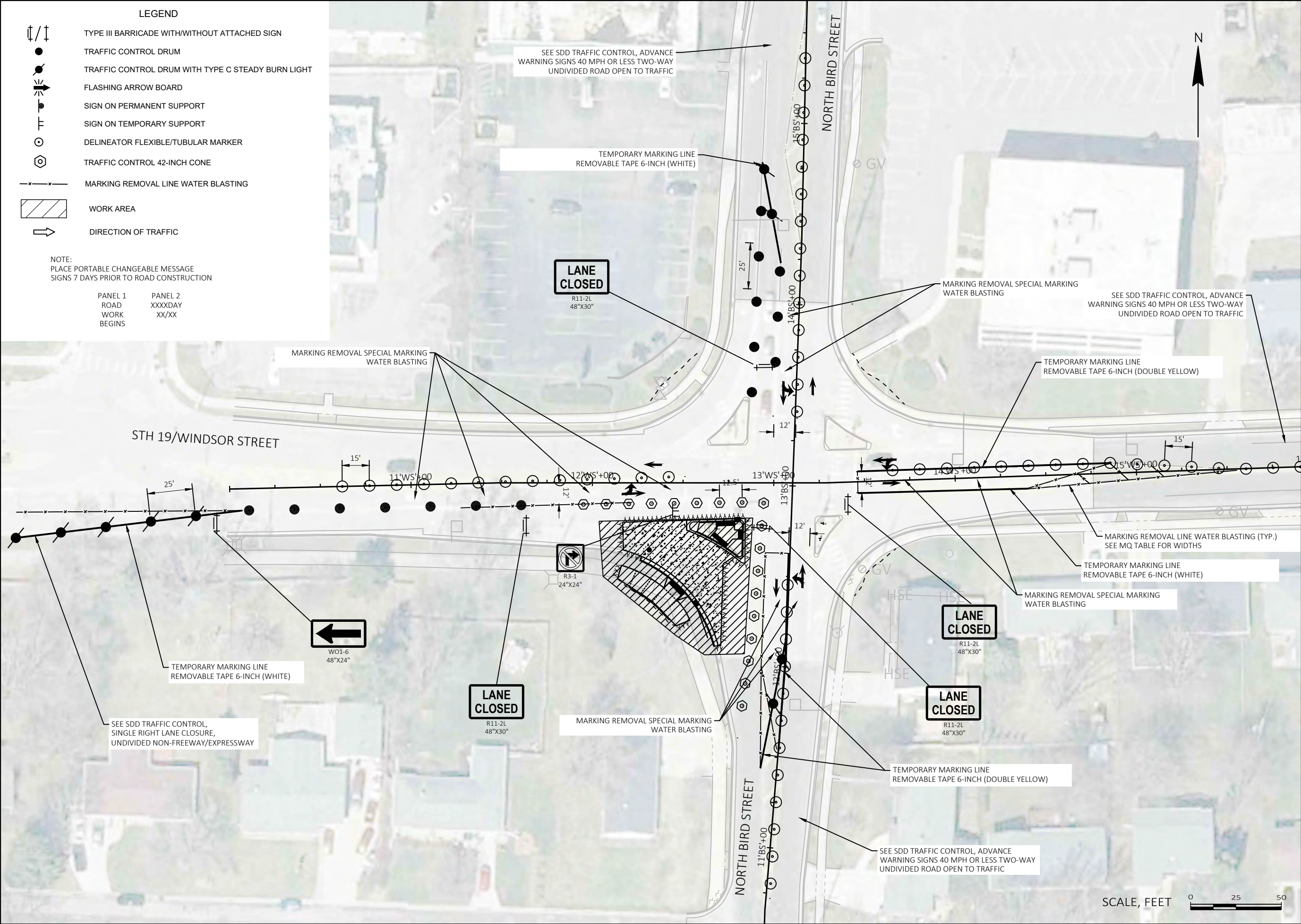
Project No: 25006
Date: 03-13-2025
Designed By: KL ENGINEERING
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Checked By:

Revisions:

SHEET NO.



FILE NAME : G:\SUN PRAIRIE\23070-000 MAIN-CHURCH BIRD-WINDSOR\5\SP\CIVIL 3D\SHEETS\PLAN\025100-TC-STAGE 1.DWG PLOT BY : BRAD CUNNINGHAM PLOT DATE : 3/13/2025 1:56 PM



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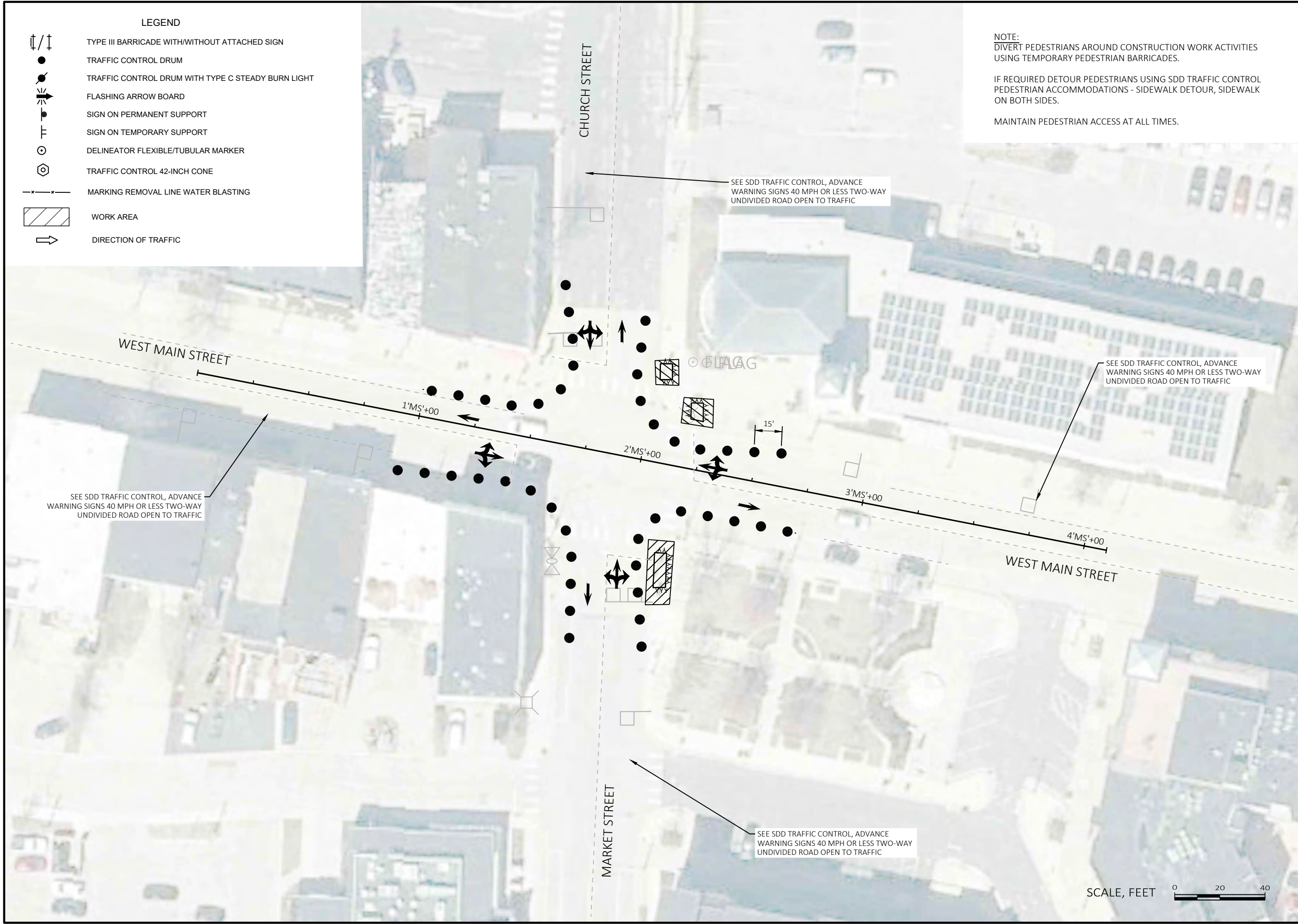
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TRAFFIC CONTROL - STAGE 1

Project No:	25006
Date:	03-13-2025
Designed By:	KL ENGINEERING
Drafted By:	
Checked By:	

Revisions:

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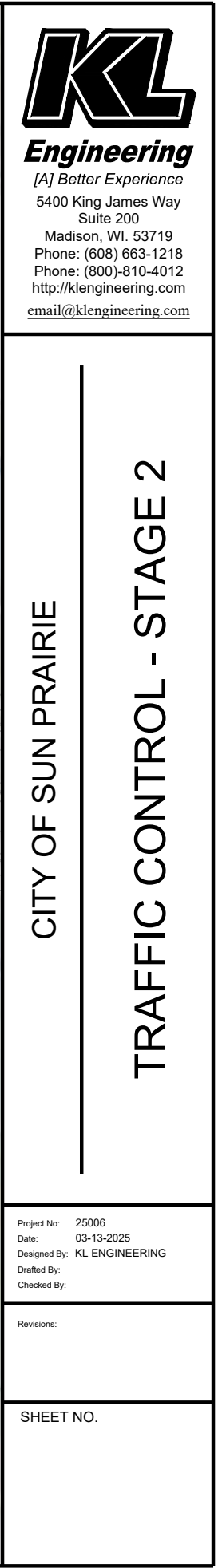


TRAFFIC CONTROL PLAN

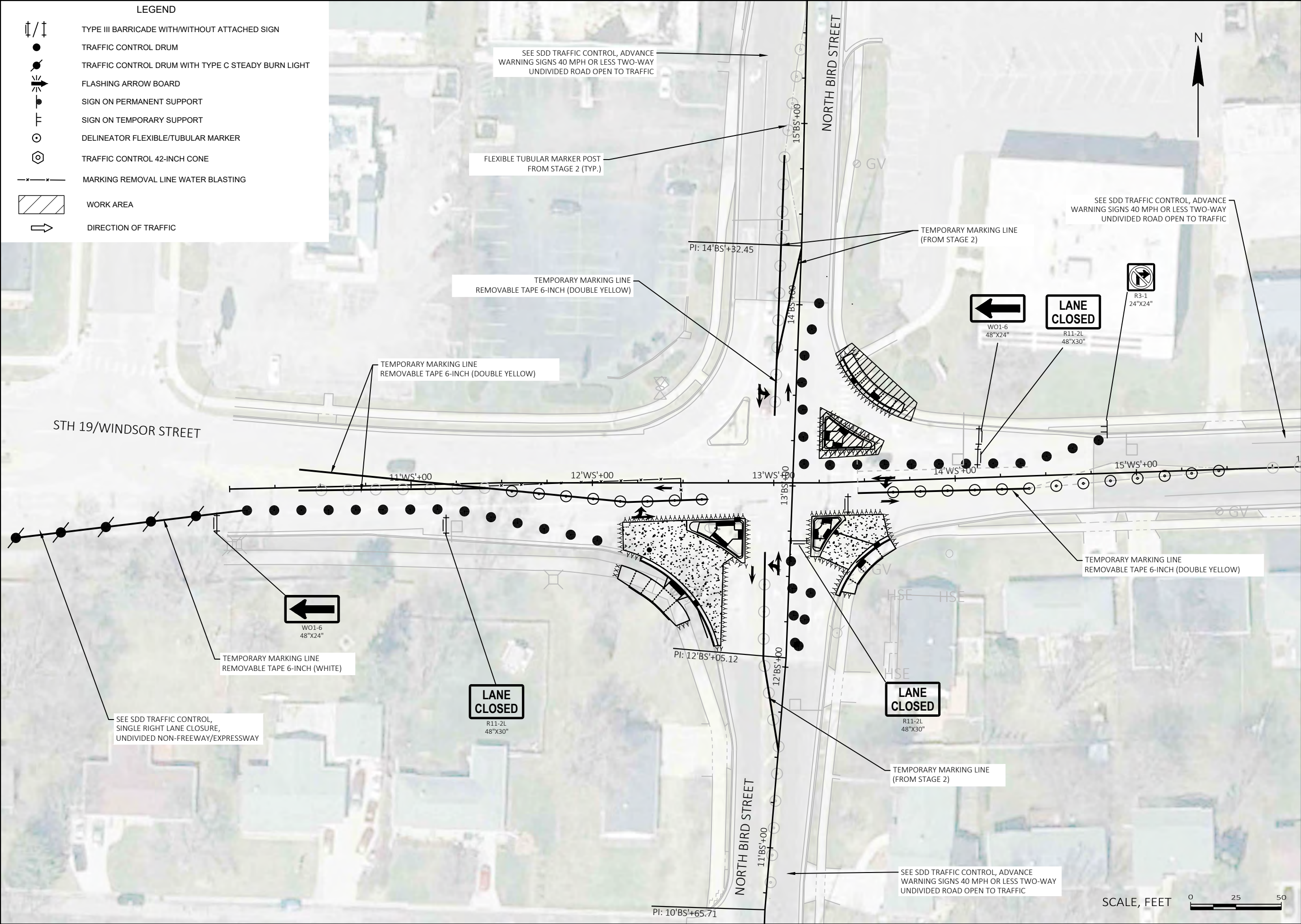
Project No: 25006
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FILE NAME : G:\SUN PRAIRIE\23070-000 MAIN-CHURCH BIRD-WINDSOR 51P\CIVIL 3D\SHEETSP\PLAN\025100-TC-STAGE 3.DWG PLOT BY : BRAD CUNNINGHAM PLOT DATE : 3/13/2025 2:14 PM





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TRAFFIC CONTROL - STAGE 3

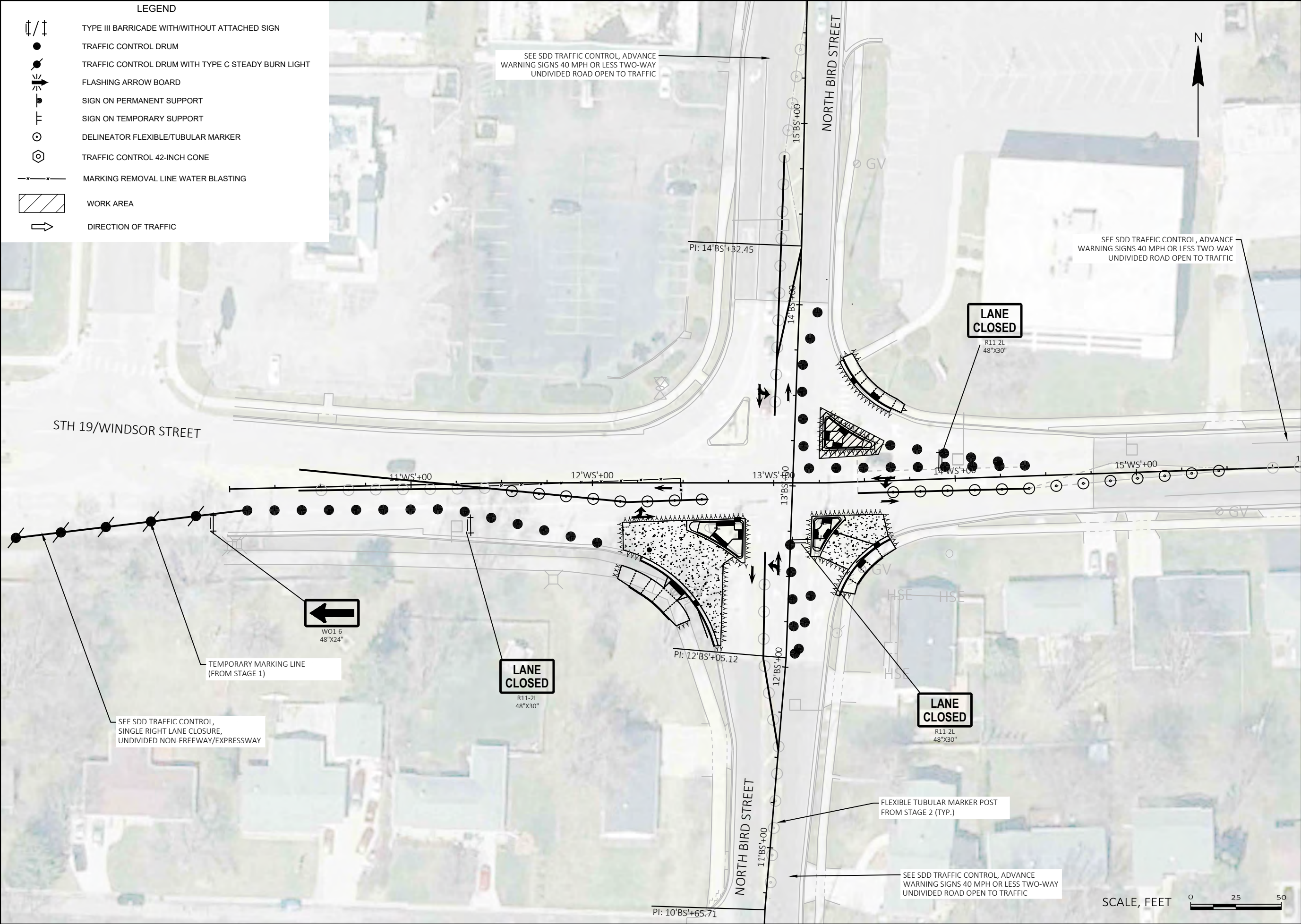
(OFF-PEAK HOURS)

Project No: 25006
Date: 03-13-2025
Designed By: KL ENGINEERING
Drafted By:
Checked By:

Revisions:

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FILE NAME : G:\SUN PRAIRIE\23070-000 MAIN-CHURCH BIRD-WINDSOR 51P\CIVIL 3D\SHEETSP\PLAN\025100-TC-STAGE 3.DWG PLOT BY : BRAD CUNNINGHAM PLOT DATE : 3/13/2025 2:14 PM





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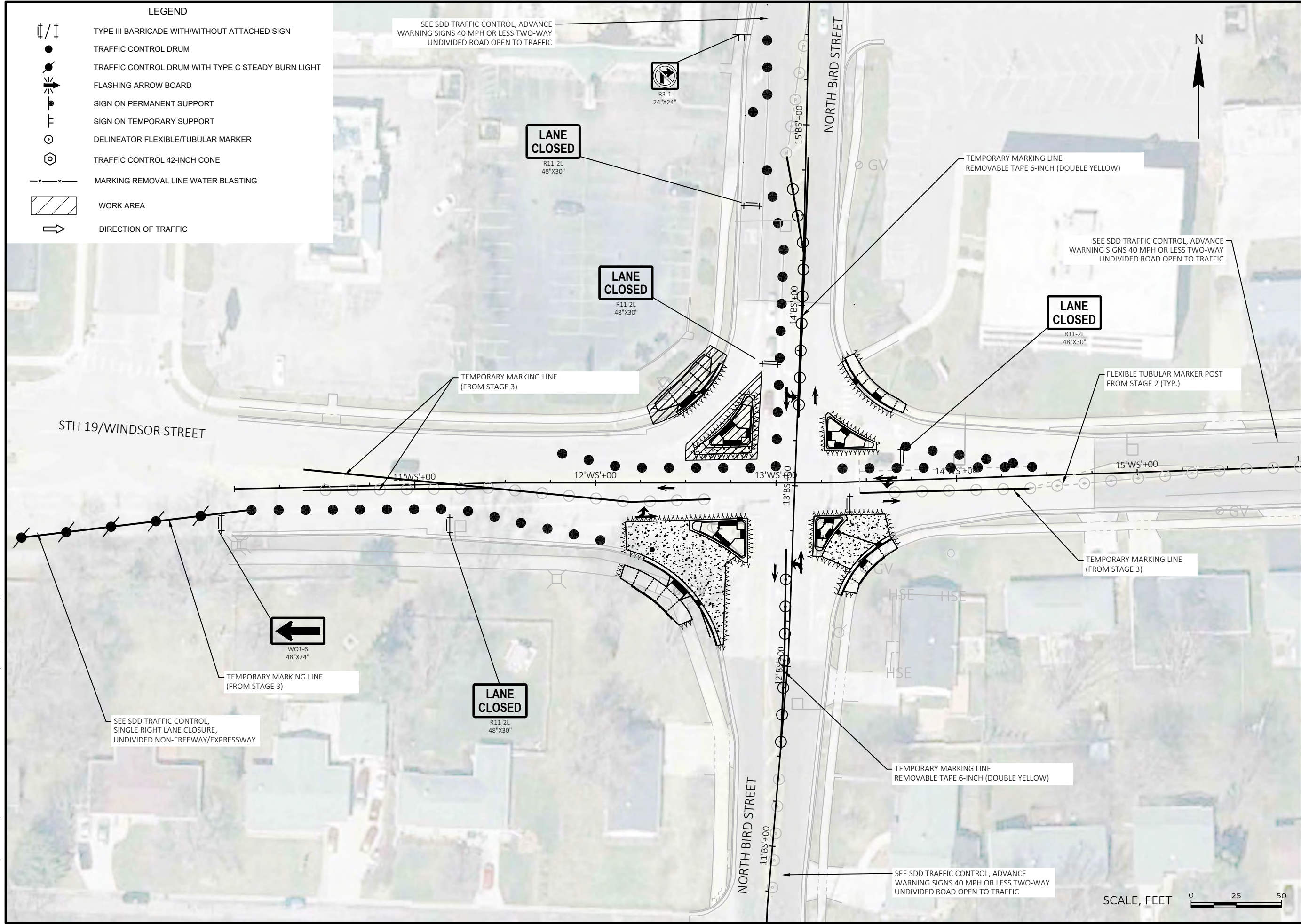
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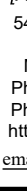
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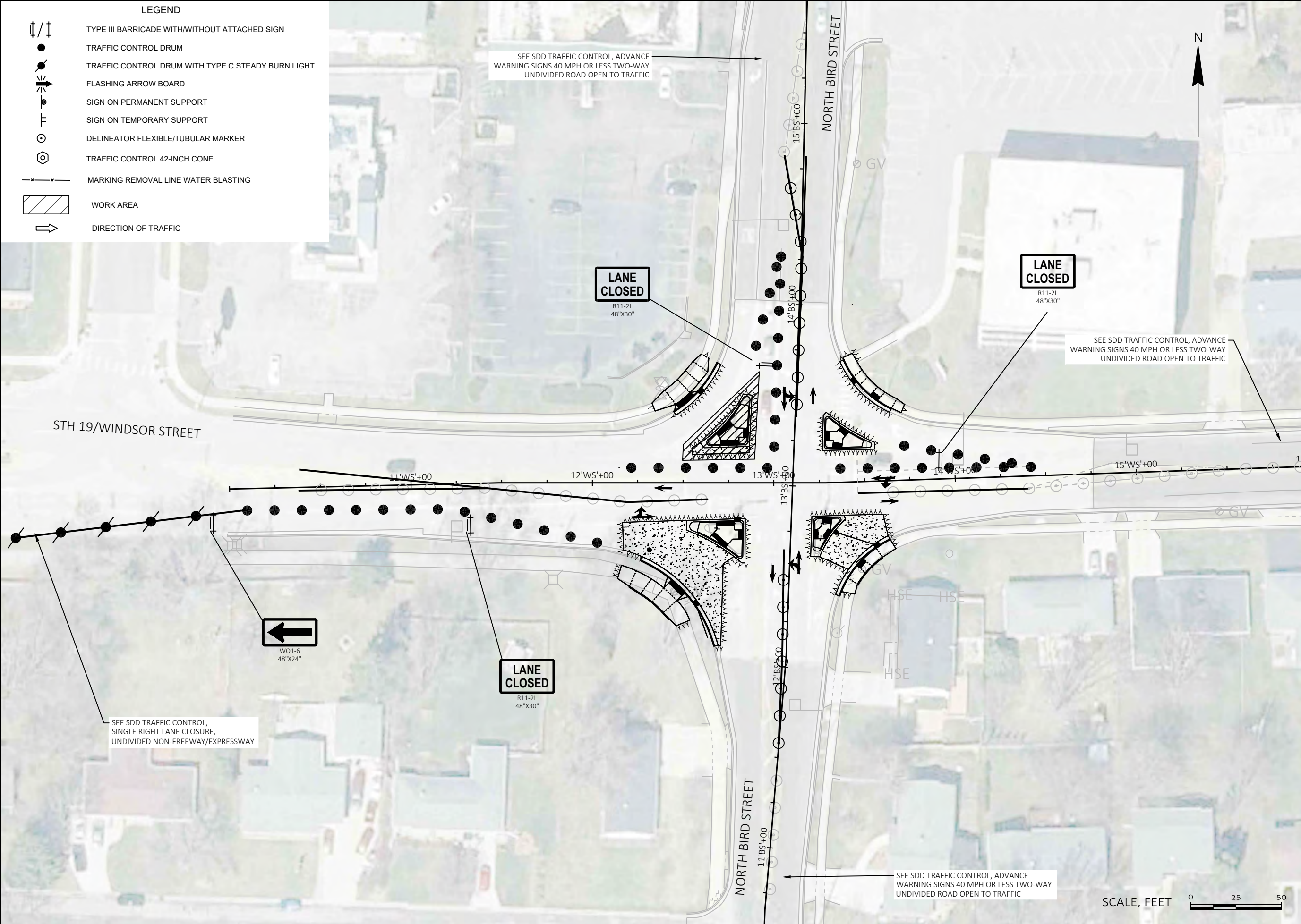
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Project No:	25006
Date:	03-13-2025
Designed By:	KL ENGINEERING
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SHEET NO.	

FILE NAME : G:\SUN PRAIRIE\23070-000 MAIN-CHURCH BIRD-WINDSOR\SISP\CIVIL 3D\SHEETSP\PLAN\025100-TC-STAGE 4.DWG PLOT BY : BRAD CUNNINGHAM PLOT DATE : 3/13/2025 2:19 PM





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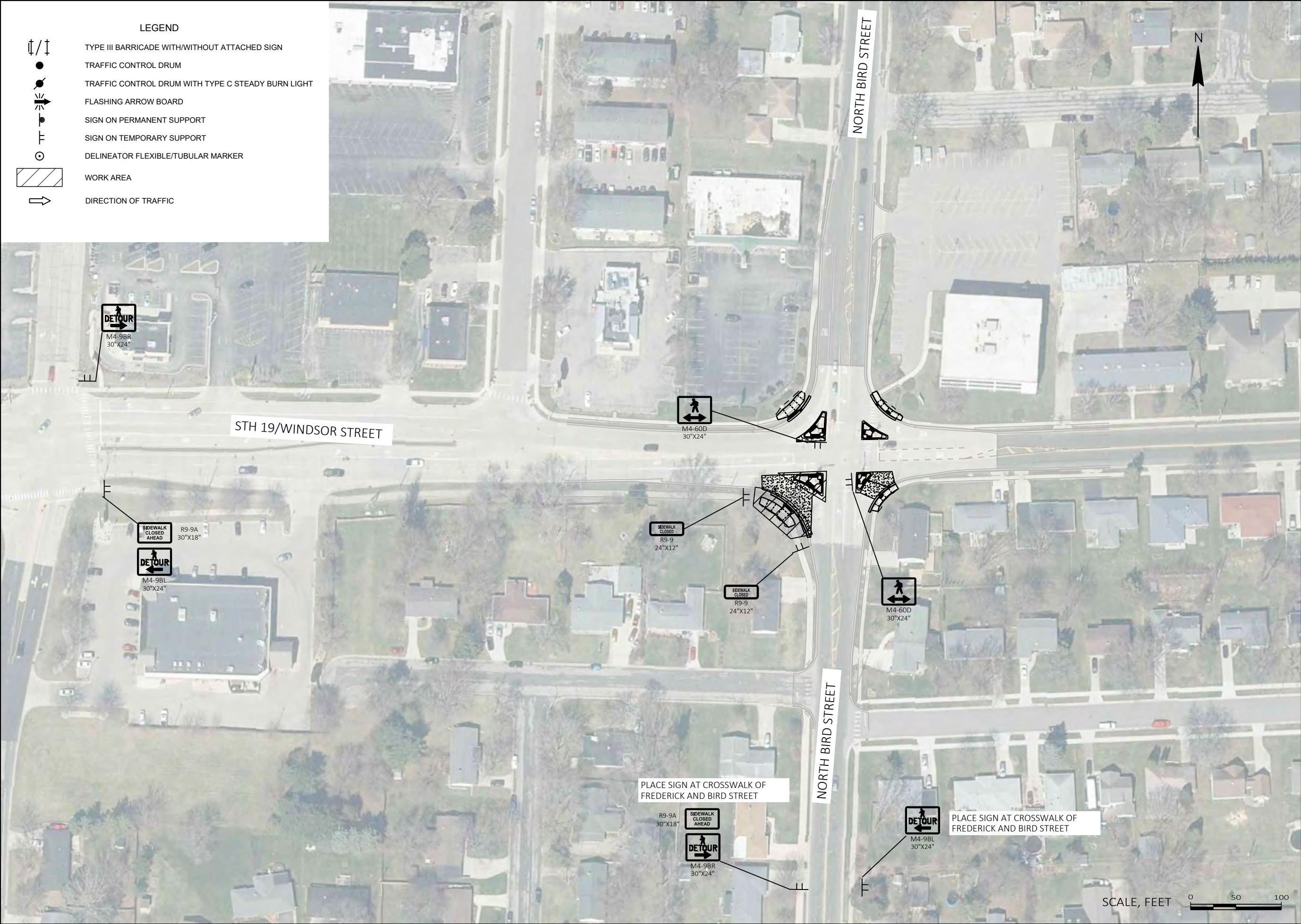
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TRAFFIC CONTROL - STAGE 4
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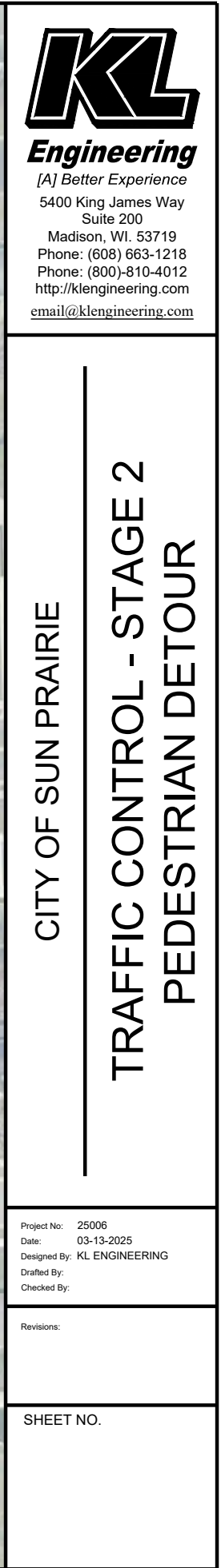
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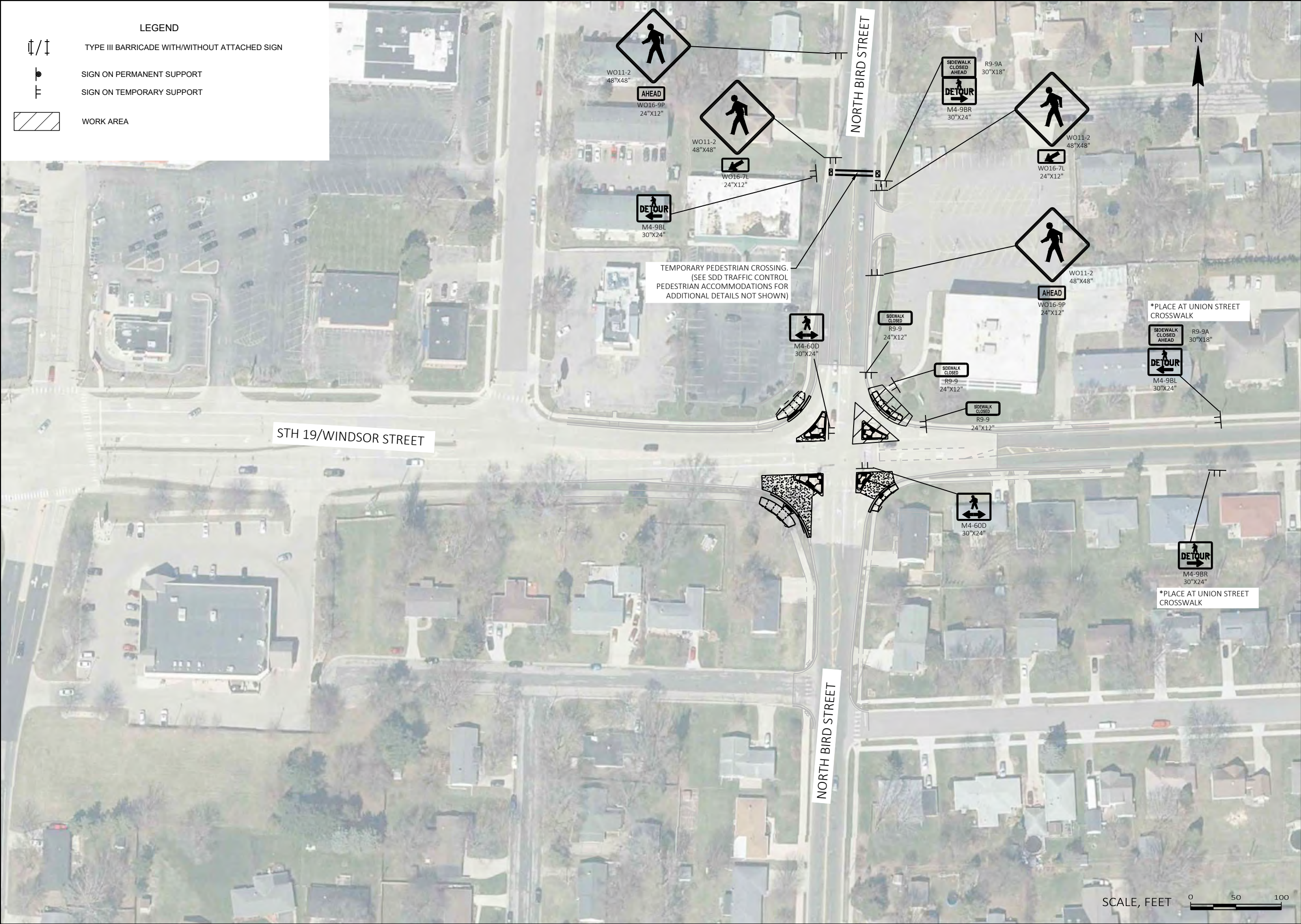
PEDESTRIAN DETOUR

Project No: 25006
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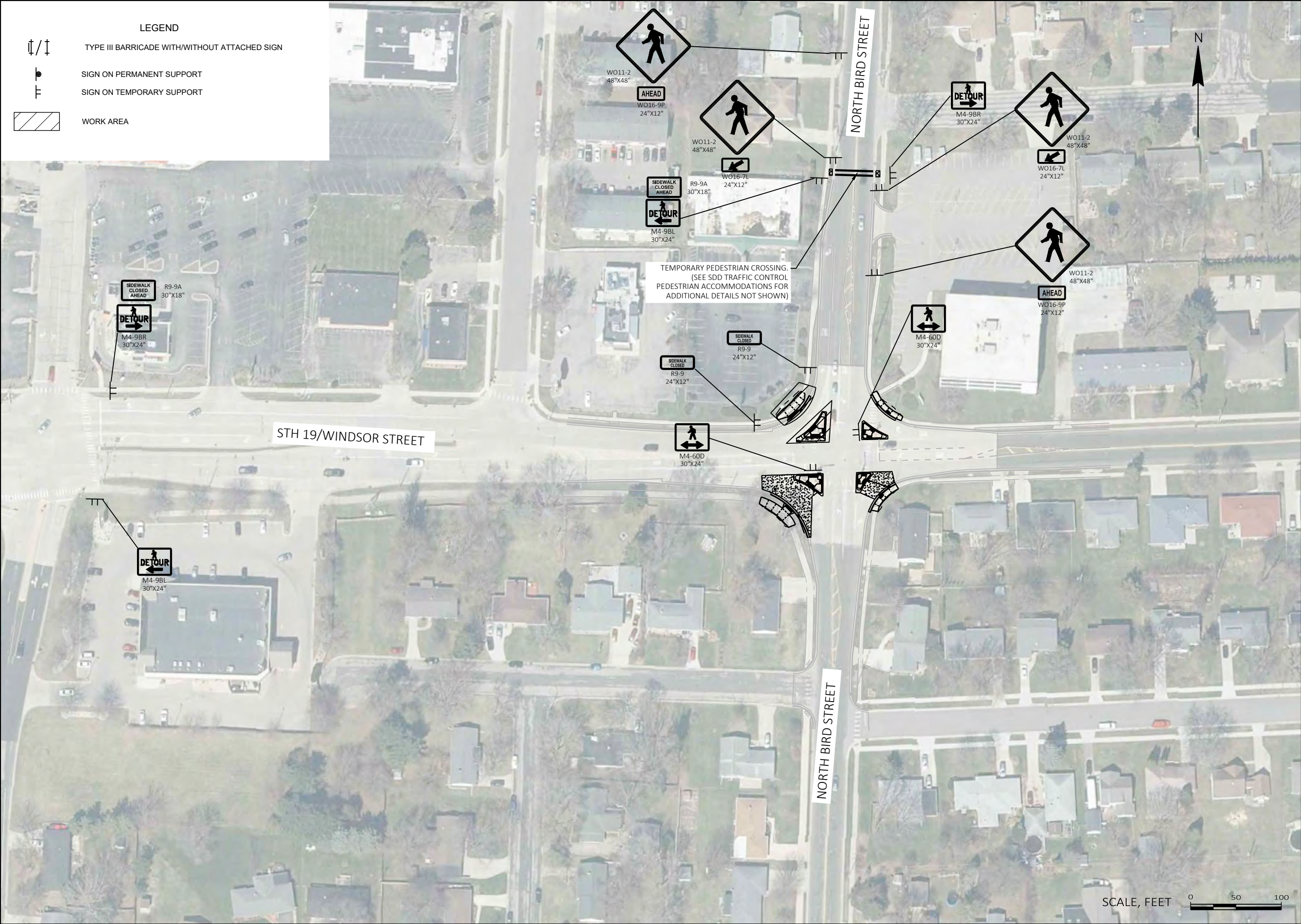
TRAFFIC CONTROL - STAGE 3

PEDESTRIAN DETOUR

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